

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: October 16, 2005, 10:10:38 ; Search time 692 Seconds

(without alignments)
587.535 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 58
Sequence: 1 MOWPPSPPLFFFLQLKQSS.....RYGKKRRATFMPDPRGTP 58

Scoring table:

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Ygapop 60.0, Ygapext 60.0
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 8765912 seqs, 3504951483 residues

Word size: 1

Total number of hits satisfying chosen parameters: 10478022

Minimum DB seq length: 0
Maximum DB seq length: 30

Post-processing: Listing first 45 summaries

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-DEV TIMEOUT=150 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6
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Database :

Published Applications NA: *
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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	7	12.1	23	9	US-09-860-996-14
2	7	12.1	25	20	US-10-483-654-9
3	7	12.1	25	21	US-10-719-900-27595
4	7	12.1	25	24	US-11-036-317-21607
5	7	12.1	25	24	US-11-036-317-236358
6	7	12.1	25	24	US-11-036-317-989913
7	7	12.1	25	24	US-11-036-317-390331
8	7	12.1	25	24	US-11-036-317-397073
9	7	12.1	25	24	US-11-036-317-898261
10	7	12.1	25	24	US-11-036-317-968427
11	7	12.1	25	24	US-11-036-317-989913
12	6	10.3	19	18	US-10-092-500A-680
13	6	10.3	20	17	US-10-181-874-18
14	6	10.3	20	17	US-10-271-602B-20
15	6	10.3	20	17	US-10-271-602B-29
16	6	10.3	20	17	US-10-271-602B-50
17	6	10.3	20	17	US-10-349-143-11305
18	6	10.3	20	20	US-10-473-126-468
19	6	10.3	21	20	US-10-751-736-32850
20	6	10.3	21	21	US-10-847-918-13631
21	6	10.3	21	21	US-10-847-918-13633
22	6	10.3	21	21	US-10-847-918-13634
23	6	10.3	21	21	US-10-847-918-13635
24	6	10.3	21	21	US-10-847-918-13639
25	6	10.3	21	21	US-10-847-918-13640
26	6	10.3	21	21	US-10-847-918-13641
27	6	10.3	21	21	US-10-847-918-13642
28	6	10.3	21	21	US-10-847-918-13644
29	6	10.3	22	16	US-10-302-379-20
30	6	10.3	23	9	US-09-942-374-6
31	6	10.3	23	18	US-10-665-956-6
32	6	10.3	23	20	US-10-483-654-8
33	6	10.3	25	15	US-10-098-263B-31202
34	6	10.3	25	15	US-10-098-263B-67759
35	6	10.3	25	15	US-10-098-263B-78553
36	6	10.3	25	15	US-10-098-263B-78554
37	6	10.3	25	15	US-10-098-263B-83546
38	6	10.3	25	15	US-10-098-263B-83546
39	6	10.3	25	21	US-10-719-900-15610
40	6	10.3	25	21	US-10-719-900-46685
41	6	10.3	25	21	US-10-719-900-46686
42	6	10.3	25	21	US-10-719-900-47953
43	6	10.3	25	21	US-10-719-900-124417
44	6	10.3	25	21	US-10-719-900-174340
45	6	10.3	25	21	US-10-719-900-241517

ALIGNMENTS

RESULT 1
US-09-860-996-14/c
; Sequence 14, Application US/09860996
; Patent No. US2002003433A1
GENERAL INFORMATION:
APPLICANT: Mitrophanous, et al
TITLE OF INVENTION: VECTOR
FILE REFERENCE: 674523-2010
CURRENT FILING DATE: 2001-05-18
PRIOR APPLICATION NUMBER: PCT/GB99/03866
PRIOR FILING DATE: 1999-11-19
PRIOR APPLICATION NUMBER: 9825524.3
PRIOR FILING DATE: 1998-11-20
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PatentIn version 3.0

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/ SEQ ID NO 14
/ LENGTH: 23
/ TYPE: DNA
/ ORGANISM: Human Immunodeficiency Virus Type 1
US-09-860-996-14

Alignment Scores:
Pred. No.: 107          Length: 23
Score: 7.00           Matches: 7
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match: 12.07%          Indels: 0
DB: 9                   Gaps: 0

US-10-031-158-14 (1-58) x US-09-860-996-14 (1-23)

Qy 5 ProProSerProLeuPhePhe 11
Db 22 CCCCCATCCCCCTTCTTT 2

RESULT 2
US-10-483-654-9
/ Sequence 9, Application US/10483654
/ Publication No. US20040220095A1
/ GENERAL INFORMATION:
/ APPLICANT: Braun, Klaus
/ APPLICANT: Waldeck, Waldemar
/ APPLICANT: Pipkorn, Rudiger
/ APPLICANT: Debus, Jurgen
/ APPLICANT: Braun, Isabella
/ TITLE OF INVENTION: PNA Conjugate for the Treatment of Diseases Associated with HIV
/ FILE REFERENCE: 4121-159
/ CURRENT APPLICATION NUMBER: US/10/483,654
/ PRIOR FILING DATE: 2004-01-12
/ PRIOR APPLICATION NUMBER: PCT/DE 02/02564
/ PRIOR FILING DATE: 2002-07-12
/ PRIOR APPLICATION NUMBER: DE 101 33 307.2
/ NUMBER OF SEQ ID NOS: 54
/ SOFTWARE: Patentin version 3.2
/ SEQ ID NO 9
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: PNA Ia
US-10-483-654-9

Alignment Scores:
Pred. No.: 115          Length: 25
Score: 7.00           Matches: 7
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match: 12.07%          Indels: 0
DB: 20                   Gaps: 0

US-10-031-158-14 (1-58) x US-10-483-654-9 (1-25)

Qy 7 SerProLeuPhePhePheLeu 13
Db 4 TCCCCCTTCTTCTTTCTT 24

RESULT 3
US-10-719-900-27595
/ Sequence 27595, Application US/10719900
/ Publication No. US20050026164A1
/ GENERAL INFORMATION:
/ APPLICANT: Xue Mei Zhou
/ TITLE OF INVENTION: Methods of Genetic Analysis of Mouse
/ FILE REFERENCE: 3528.1
/ PRIOR APPLICATION NUMBER: US/10/719,900
/ PRIOR FILING DATE: 2003-11-20
/ NUMBER OF SEQ ID NOS: 60/427,808
/ PRIOR APPLICATION NUMBER: 60/427,808
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/ PRIOR FILING DATE: 2002 11 20
/ NUMBER OF SEQ ID NOS: 982914
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 27595
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-10-719-900-27595

Alignment Scores:
Pred. No.: 115          Length: 25
Score: 7.00           Matches: 7
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match: 12.07%          Indels: 0
DB: 21                   Gaps: 0

US-10-031-158-14 (1-58) x US-10-719-900-27595 (1-25)

Qy 35 LeuMetLeuLeuArgTyrIle 41
Db 5 CTAATGTACTCAGGTATATA 25

RESULT 4
US-11-036-317-217607/c
/ Sequence 217607, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Blume, John
/ APPLICANT: Williams, Alan
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ PRIOR FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ PRIOR FILING DATE: 2004-01-13
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 217607
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-217607

Alignment Scores:
Pred. No.: 115          Length: 25
Score: 7.00           Matches: 7
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match: 12.07%          Indels: 0
DB: 24                   Gaps: 0

US-10-031-158-14 (1-58) x US-11-036-317-217607 (1-25)

Qy 32 AsnPheserLeuMetLeuLeu 38
Db 21 AATTTTCTTGATGTGTG 1

RESULT 5
US-11-036-317-236358/c
/ Sequence 236358, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Blume, John
/ APPLICANT: Williams, Alan
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ PRIOR FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ PRIOR FILING DATE: 2004-01-13
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
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/ SEQ ID NO 236358
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-236358

Alignment Scores:
Pred. No.: 115      Length: 25
Score: 7.00        Matches: 7
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match: 12.07%  Indels: 0
DB: 24             Gaps: 0

US-10-031-158-14 (1-58) x US-11-036-317-236358 (1-25)

Qy 32 AenpSerLeuMetLeu 38
Db 22 AATTTTCTTGATGTTGTTG 2

RESULT 6
US-11-036-317-358635/c
/ Sequence 358635, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ PRIOR FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 358635
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-358635

Alignment Scores:
Pred. No.: 115      Length: 25
Score: 7.00        Matches: 7
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match: 12.07%  Indels: 0
DB: 24             Gaps: 0

US-10-031-158-14 (1-58) x US-11-036-317-358635 (1-25)

Qy 32 AenpSerLeuMetLeu 38
Db 23 AATTTTCTTGATGTTGTTG 3

RESULT 7
US-11-036-317-390331/c
/ Sequence 390331, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ PRIOR FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 390331
/ LENGTH: 25
/ TYPE: DNA
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/ ORGANISM: Mus musculus
US-11-036-317-390331

Alignment Scores:
Pred. No.: 115      Length: 25
Score: 7.00        Matches: 7
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match: 12.07%  Indels: 0
DB: 24             Gaps: 0

US-10-031-158-14 (1-58) x US-11-036-317-390331 (1-25)

Qy 32 AenpSerLeuMetLeu 38
Db 24 AATTTTCTTGATGTTGTTG 4

RESULT 8
US-11-036-317-397073/c
/ Sequence 397073, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ PRIOR FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 397073
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-397073

Alignment Scores:
Pred. No.: 115      Length: 25
Score: 7.00        Matches: 7
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match: 12.07%  Indels: 0
DB: 24             Gaps: 0

US-10-031-158-14 (1-58) x US-11-036-317-397073 (1-25)

Qy 32 AenpSerLeuMetLeu 38
Db 25 AATTTTCTTGATGTTGTTG 5

RESULT 9
US-11-036-317-898261/c
/ Sequence 898261, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ PRIOR FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 898261
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-898261
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Pred. No.: 115 Length: 25
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 24 Gaps: 0

US-10-031-158-14 (1-58) x US-11-036-317-989261 (1-25)

QY 32 AenpSeSerLeuMetLeuLeu 38
DB 22 AATTTTCTTGATGTGTG 2

RESULT 10
US-11-036-317-968427/c
/ Sequence 968427, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ APPLICANT: Blume, John
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ PRIOR FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 968427
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-968427

Alignment Scores:
Pred. No.: 115 Length: 25
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 24 Gaps: 0

US-10-031-158-14 (1-58) x US-11-036-317-968427 (1-25)

QY 32 AenpSeSerLeuMetLeuLeu 38
DB 23 AATTTTCTTGATGTGTG 3

RESULT 11
US-11-036-317-989913/c
/ Sequence 989913, Application US/11036317
/ Publication No. US20050214823A1
/ GENERAL INFORMATION:
/ APPLICANT: Williams, Alan
/ APPLICANT: Blume, John
/ TITLE OF INVENTION: Method of Analysis of Alternative Splicing in Mouse
/ FILE REFERENCE: 3654.1
/ CURRENT APPLICATION NUMBER: US/11/036,317
/ PRIOR FILING DATE: 2005-01-13
/ PRIOR APPLICATION NUMBER: US 60/536,639
/ NUMBER OF SEQ ID NOS: 991174
/ SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
/ SEQ ID NO 989913
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-11-036-317-989913

Alignment Scores:
Pred. No.: 115 Length: 25
Score: 7.00 Matches: 7
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Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 24 Gaps: 0

US-10-031-158-14 (1-58) x US-11-036-317-989913 (1-25)

QY 32 AenpSeSerLeuMetLeuLeu 38
DB 25 AATTTTCTTGATGTGTG 5

RESULT 12
US-10-092-900A-680/c
/ Sequence 680, Application US/10092900A
/ Publication No. US20040043382A1
/ GENERAL INFORMATION:
/ APPLICANT: Padigar, Muralidhara
/ APPLICANT: Spytek, Kimberly A.
/ APPLICANT: Shenoy, Suresh G.
/ APPLICANT: Taupier Jr., Raymond J.
/ APPLICANT: Pena, Carol E.A.
/ APPLICANT: Li, Li
/ APPLICANT: Zethusen, Bryan D.
/ APPLICANT: Gusev, Vladimir Y.
/ APPLICANT: Ji, Weizhen
/ APPLICANT: Gorman, Linda
/ APPLICANT: Miller, Charles E.
/ APPLICANT: Kekuda, Ramesh
/ APPLICANT: Paturajan, Meera
/ APPLICANT: Gangoli, Bsha A.M.
/ APPLICANT: Verne, Corine A.M.
/ APPLICANT: Guo, Xiaojia Sasha
/ APPLICANT: Tchernev, Velizar T.
/ APPLICANT: Fernandes, Elma R.
/ APPLICANT: Casman, Stacie J.
/ APPLICANT: Malpankar, Uriel M.
/ APPLICANT: Gerlach, Valerie
/ APPLICANT: Liu, Yi
/ APPLICANT: Anderson, David W.
/ APPLICANT: Spaderna, Steven K.
/ APPLICANT: Catterton, Elina
/ APPLICANT: Leite, Mario W.
/ APPLICANT: Zhong, Haihong
/ APPLICANT: Alsbrook, John P.
/ APPLICANT: Lepley, Denise M.
/ APPLICANT: Rieger, Daniel K.
/ TITLE OF INVENTION: No. US20040043382A1 Proteins and Nucleic Acids Encoding Same
/ FILE REFERENCE: 21402-290C
/ CURRENT APPLICATION NUMBER: US/10/092, 900A
/ PRIOR FILING DATE: 2002-03-07
/ PRIOR APPLICATION NUMBER: US60/274,322
/ PRIOR FILING DATE: 2001-03-08
/ PRIOR APPLICATION NUMBER: US60/283,675
/ PRIOR FILING DATE: 2001-04-13
/ PRIOR APPLICATION NUMBER: US60/338,092
/ PRIOR FILING DATE: 2001-12-03
/ PRIOR APPLICATION NUMBER: US60/274,281
/ PRIOR FILING DATE: 2001-03-08
/ PRIOR APPLICATION NUMBER: US60/274,191
/ PRIOR FILING DATE: 2001-03-08
/ PRIOR APPLICATION NUMBER: US60/325,681
/ PRIOR FILING DATE: 2001-09-27
/ PRIOR APPLICATION NUMBER: US60/304,354
/ PRIOR FILING DATE: 2001-07-10
/ PRIOR APPLICATION NUMBER: US60/279,995
/ PRIOR FILING DATE: 2001-03-30
/ PRIOR APPLICATION NUMBER: US60/294,899
/ PRIOR FILING DATE: 2001-05-31
/ PRIOR APPLICATION NUMBER: US60/287,424
/ PRIOR FILING DATE: 2001-04-30
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 768
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SEQ ID NO 680
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Forward Primer
US-10-092-900A-680

Alignment Scores:
Pred. No.: 934 Length: 19
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
DB: 18 Gaps: 0

US-10-031-158-14 (1-58) x US-10-092-900A-680 (1-19)

Qy 48 ThiraghetTPaapPro 53
Db 19 ACTGATCTCGGACCCG 2

RESULT 13
US-10-181-874-18
Sequence 18, Application US/10181874
Publication No. US20030212020A1
GENERAL INFORMATION:
APPLICANT: Isis Pharmaceuticals, Inc.
APPLICANT: Susan Murray
APPLICANT: Lex M. Cowart
APPLICANT: Jacqueline Wyatt
TITLE OF INVENTION: ANTISENSE MODULATION OF MACROPHAGE MIGRATION INHIBITORY FACTOR
FILE REFERENCE: RSP-0351
CURRENT APPLICATION NUMBER: US/10181,874
CURRENT FILING DATE: 2002-07-22
PRIOR APPLICATION NUMBER: 09/489,869
PRIOR FILING DATE: 2000-01-20
NUMBER OF SEQ ID NOS: 88
SEQ ID NO 18
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Antisense Oligonucleotide
US-10-181-874-18

Alignment Scores:
Pred. No.: 978 Length: 20
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
DB: 17 Gaps: 0

US-10-031-158-14 (1-58) x US-10-181-874-18 (1-20)

Qy 52 AppProArGAGlyThr 57
Db 3 GACCGCGGAGGACACA 20

RESULT 14
US-10-271-602B-20
Sequence 20, Application US/10271602B
Publication No. US20040002073A1
GENERAL INFORMATION:
APPLICANT: Alice Xiang Li
APPLICANT: Ghazala Hashmi
APPLICANT: Michael Seoul
TITLE OF INVENTION: MULTIPLEXED ANALYSIS OF POLYMORPHIC LOCI
FILE REFERENCE: EMP-US
CURRENT APPLICATION NUMBER: US/10/271,602B
CURRENT FILING DATE: 2002-10-15

PRIOR APPLICATION NUMBER: 60/329,427
PRIOR FILING DATE: 2001-10-14
PRIOR APPLICATION NUMBER: 60/329,620
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 60/329,428
PRIOR FILING DATE: 2001-10-14
PRIOR APPLICATION NUMBER: 60/329,619
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 60/364,416
PRIOR FILING DATE: 2002-03-14
NUMBER OF SEQ ID NOS: 212
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 20
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Probe sequence derived from human genomic sequence
US-10-271-602B-20

Alignment Scores:
Pred. No.: 978 Length: 20
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
DB: 17 Gaps: 0

US-10-031-158-14 (1-58) x US-10-271-602B-20 (1-20)

Qy 12 PhelaGlnLeuLeuLys 17
Db 1 TTCTTGACACTCTTAAG 18

RESULT 15
US-10-271-602B-29
Sequence 29, Application US/10271602B
Publication No. US20040002073A1
GENERAL INFORMATION:
APPLICANT: Alice Xiang Li
APPLICANT: Ghazala Hashmi
APPLICANT: Michael Seoul
TITLE OF INVENTION: MULTIPLEXED ANALYSIS OF POLYMORPHIC LOCI
FILE REFERENCE: EMP-US
CURRENT APPLICATION NUMBER: US/10/271,602B
CURRENT FILING DATE: 2002-10-15
PRIOR APPLICATION NUMBER: 60/329,427
PRIOR FILING DATE: 2001-10-14
PRIOR APPLICATION NUMBER: 60/329,620
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 60/329,428
PRIOR FILING DATE: 2001-10-14
PRIOR APPLICATION NUMBER: 60/329,619
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 60/364,416
PRIOR FILING DATE: 2002-03-14
NUMBER OF SEQ ID NOS: 212
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 20
TYPE: DNA
ORGANISM: Human
US-10-271-602B-29

Alignment Scores:
Pred. No.: 978 Length: 20
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
DB: 17 Gaps: 0

US-10-031-158-14 (1-58) x US-10-271-602B-29 (1-20)

Qy	12	PheLeuGlnLeuLeuLys	17
Db	1	TTCTTGCAAGCTGCTTAAG	18

Search completed: October 16, 2005, 12:50:52
Job time : 693 secs

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus.p2n model

Run on: October 16, 2005, 09:22:02 ; Search time 130 Seconds
(without alignments)
730.031 Million cell updates/sec

Title: US-10-031-158-14
Perfect score: 58
Sequence: 1 MCMPPSPPLFFLLQLKQSS.....RYIGKKRATRFWDPRGRGP 58

Scoring table:
Xgapop 60.0, Xgapext 60.0
Ygapop 60.0, Ygapext 60.0
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 1202784 seqs, 818138359 residues

Word size: 1

Total number of hits satisfying chosen parameters: 965324

Minimum DB seq length: 0
Maximum DB seq length: 30

Post-processing: Listing first 45 summaries

Command line parameters:
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-DB=Issued_Patents_NA -QFMT=fastap -SUFFIX=p2n_olig_bz30.rml -MINMATCH=0.1
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=quality -THR MIN=1
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=30
-USER=US10031158 @CCN 1.1.105 @rnatc_14102005_135843_19628 -NCPU=6 -ICPU=3
-NO_MAP -LARGEOUTERY -NEG_SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

- 1: Issued Patents NA.*
- 2: /cg2_6/prodata/1/ina/5A_COMB.seq.*
- 3: /cg2_6/prodata/1/ina/5B_COMB.seq.*
- 4: /cg2_6/prodata/1/ina/6A_COMB.seq.*
- 5: /cg2_6/prodata/1/ina/6B_COMB.seq.*
- 6: /cg2_6/prodata/1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	6	10.3	20	3	US-09-489-869-18
2	6	10.3	20	4	US-09-422-978-11305
3	6	10.3	22	4	US-08-857-636-20
4	6	10.3	25	4	US-09-396-196G-41485
5	6	10.3	25	4	US-09-396-196G-41486
6	6	10.3	25	4	US-09-396-196G-41487
7	6	10.3	25	4	US-09-396-196G-41488
8	6	10.3	25	4	US-09-396-196G-41489
9	6	10.3	25	4	US-09-396-196G-41490
10	6	10.3	25	4	US-09-396-196G-41491
11	6	10.3	25	4	US-09-396-196G-41492
12	6	10.3	25	4	US-09-396-196G-41493

13.	6	10.3	25	4	US-09-396-196G-127384	Sequence 127384,
C 14	6	10.3	30	1	US-08-186-229-20	Sequence 20, Appl
C 15	6	10.3	30	2	US-08-470-124-20	Sequence 20, Appl
C 16	5	8.6	16	1	US-08-087-387-1	Sequence 1, Appl
C 17	5	8.6	16	1	US-08-455-627-1	Sequence 1, Appl
C 18	5	8.6	16	1	US-08-242-664-21	Sequence 21, Appl
C 19	5	8.6	16	1	US-08-242-664-22	Sequence 22, Appl
C 20	5	8.6	16	1	US-08-484-138-21	Sequence 21, Appl
C 21	5	8.6	16	1	US-08-484-138-22	Sequence 22, Appl
C 22	5	8.6	16	1	US-08-461-271-1	Sequence 1, Appl
C 23	5	8.6	16	1	US-08-713-685A-1	Sequence 1, Appl
C 24	5	8.6	16	2	US-08-689-856-1	Sequence 1, Appl
C 25	5	8.6	16	2	US-08-412-376-1	Sequence 1, Appl
C 26	5	8.6	16	3	US-09-070-477-1	Sequence 1, Appl
C 27	5	8.6	16	3	US-07-808-452-17	Sequence 17, Appl
C 28	5	8.6	16	3	US-09-133-717-11	Sequence 11, Appl
C 29	5	8.6	16	3	US-08-787-321-1	Sequence 1, Appl
C 30	5	8.6	16	3	US-08-787-321-16	Sequence 16, Appl
C 31	5	8.6	16	3	US-09-158-863C-11	Sequence 11, Appl
C 32	5	8.6	16	5	PCT-US92-10770-17	Sequence 17, Appl
C 33	5	8.6	16	5	PCT-US92-10792-15	Sequence 15, Appl
C 34	5	8.6	16	5	PCT-US95-06379-21	Sequence 21, Appl
C 35	5	8.6	16	5	PCT-US95-06379-22	Sequence 22, Appl
C 36	5	8.6	17	1	US-08-105-483-85	Sequence 85, Appl
C 37	5	8.6	17	1	US-08-709-209-85	Sequence 85, Appl
C 38	5	8.6	17	1	US-08-458-101-85	Sequence 85, Appl
C 39	5	8.6	17	3	US-09-049-277B-17	Sequence 17, Appl
C 40	5	8.6	17	3	US-08-584-040-2777	Sequence 2777, Ap
C 41	5	8.6	17	3	US-08-584-040-2778	Sequence 2778, Ap
C 42	5	8.6	17	3	US-08-584-040-2779	Sequence 2779, Ap
C 43	5	8.6	17	3	US-08-679-645-850	Sequence 850, App
C 44	5	8.6	17	3	US-08-679-645-852	Sequence 852, App
C 45	5	8.6	17	4	US-09-371-772B-1301	Sequence 1301, Ap

ALIGNMENTS

RESULT 1
US-09-489-869-18
Sequence 18, Application US/09489869A
Patent No. 6268151
GENERAL INFORMATION:
APPLICANT: Susan Murray
APPLICANT: Lex M. Cowser
APPLICANT: Jacqueline Wyatt
TITLE OF INVENTION: ANTISENSE MODULATION OF MACROPHAGE MIGRATION INHIBITORY FACTOR
FILE REFERENCE: RTS-0110
CURRENT APPLICATION NUMBER: US/09/489,869A
CURRENT FILING DATE: 2000-01-20
NUMBER OF SEQ ID NOS: 88
SEQ ID NO 18
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Antisense Oligonucleotide
US-09-489-869-18

Alignment Scores:
Pred. No.: 178
Score: 6.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 10.34%
DB: 3
Gaps: 0

US-10-031-158-14 (1-58) x US-09-489-869-18 (1-20)

OY 52 AAPPPOARGAXGGLYThr 57
DB 3 GACCCGCGAGAGGACACA 20

RESULT 2

US-09-422-978-11305
Sequence 11305, Application US/09422978
Patent No. 6537751
GENERAL INFORMATION:
APPLICANT: Cohen, Daniel
APPLICANT: Blumenfeld, Marta
APPLICANT: Chumakov, Ilya
TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
FILE REFERENCE: GENSET.020CP1
CURRENT APPLICATION NUMBER: US/09/422,978
CURRENT FILING DATE: 1999-10-20
EARLIER APPLICATION NUMBER: US 09/298,850
EARLIER FILING DATE: 1999-04-21
EARLIER APPLICATION NUMBER: US 60/109,732
EARLIER FILING DATE: 1998-11-23
EARLIER APPLICATION NUMBER: US 60/082,614
EARLIER FILING DATE: 1998-04-21
NUMBER OF SEQ ID NOS: 11796
SEQ ID NO 11305
LENGTH: 20
TYPE: DNA
ORGANISM: Homo Sapiens
FEATURE:
NAME/KEY: primer_bind
LOCATION: 1..20
OTHER INFORMATION: downstream amplification primer 99-4119 for SEQ 3440, in compleme
US-09-422-978-11305

Alignment Scores:
Pred. No.: 178 Length: 20
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
Gaps: 0
DB: 4

US-10-031-158-14 (1-58) x US-09-422-978-11305 (1-20)

Qy 8 ProLeuPhePhePheLeu 13
|||||
3 CCCCTATTTTCTCTG 20

DB: 3

RESULT 3
US-08-857-636-20/c
Sequence 20, Application US/08857636
Patent No. 6552181
GENERAL INFORMATION:
APPLICANT: Dean, Michael Carlton
APPLICANT: Hann, Heidi Eve
APPLICANT: Wickling, Carol
APPLICANT: Christiansen, Jeffrey
APPLICANT: Zaphiropoulos, Peter G.
APPLICANT: Gallant, Mae R.
APPLICANT: Shanley, Susan Mary
APPLICANT: Chidambaram, Abirami
APPLICANT: Vorechovsky, Igor
APPLICANT: Holmberg-Lindstrom, Erika
APPLICANT: Udden, Anne Birgitte
APPLICANT: Gillies, Susan Alana
APPLICANT: Negue, Kylie
APPLICANT: Smyth, Ian Mcleod
APPLICANT: Pressman, Carol Leah
APPLICANT: Leftehl, David J.
APPLICANT: Gerrard, Bernard
APPLICANT: Goldstein, Alisa Miriam
APPLICANT: Mainwright, Brandon
APPLICANT: Toltgard, Rune Carl-Magnus
APPLICANT: Chenevix-Trench, Georgia
APPLICANT: Bale, Allen B.
TITLE OF INVENTION: A Basal Cell Carcinoma Tumor Suppressor Gene
FILE REFERENCE: 3101.1
NUMBER OF SEQUENCES: 83
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/857,636
FILING DATE: 16-MAY-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/017,906
FILING DATE: 17-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU P00011
FILING DATE: 21-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU P00363
FILING DATE: 07-JUN-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/019,765
FILING DATE: 14-JUN-1996
ATTORNEY/AGENT INFORMATION:
NAME: Hunter, Tom
REGISTRATION NUMBER: 38,498
REFERENCE/DOCKET NUMBER: 015280-278200US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: -
LOCATION: 1..22
OTHER INFORMATION: /note= "PTCF21 primer"
US-08-857-636-20

Alignment Scores:
Pred. No.: 195 Length: 22
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
Gaps: 0
DB: 4

US-10-031-158-14 (1-58) x US-08-857-636-20 (1-22)

Qy 28 ValPheLeuArgAsnPhe 33
|||||
21 GGTTCCTGAGAAATTT 4

DB: 21

RESULT 4
US-09-396-196G-41485/c
Sequence 41485, Application US/09396196G
Patent No. 6821724
GENERAL INFORMATION:
APPLICANT: Michael Miltmann
APPLICANT: David Mack
APPLICANT: David Lockhart
APPLICANT: Affymetrix, Inc.
TITLE OF INVENTION: Methods of Genetic Analysis
FILE REFERENCE: 3101.1
CURRENT APPLICATION NUMBER: US/09/396,196G
CURRENT FILING DATE: 1999-09-15

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/ PRIOR APPLICATION NUMBER: 60/100,678
/ PRIOR FILING DATE: 1998-09-17
/ NUMBER OF SEQ ID NOS: 127806
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO 41485
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-09-396-196G-41485

Alignment Scores:
Pred. No.: 220
Score: 6.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 10.34%
DB: 4
Gaps: 0

US-10-031-158-14 (1-58) x US-09-396-196G-41485 (1-25)

QY 46 ArgAlaThrArgPheTyr 51
DB 24 CGTGGTACAGGTTCTGG 7

RESULT 5
US-09-396-196G-41486/c
/ Sequence 41486, Application US/09396196G
/ Patent No. 6821724
/ GENERAL INFORMATION:
/ APPLICANT: Michael Mittlemann
/ APPLICANT: David Mack
/ APPLICANT: David Lockhart
/ APPLICANT: Affymetrix, Inc.
/ TITLE OF INVENTION: Methods of Genetic Analysis
/ FILE REFERENCE: 3101.1
/ CURRENT APPLICATION NUMBER: US/09/396,196G
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: 60/100,678
/ PRIOR FILING DATE: 1998-09-17
/ NUMBER OF SEQ ID NOS: 127806
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO 41486
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-09-396-196G-41486

Alignment Scores:
Pred. No.: 220
Score: 6.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 10.34%
DB: 4
Gaps: 0

US-10-031-158-14 (1-58) x US-09-396-196G-41486 (1-25)

QY 46 ArgAlaThrArgPheTyr 51
DB 23 CGTGGTACAGGTTCTGG 6

RESULT 6
US-09-396-196G-41487/c
/ Sequence 41487, Application US/09396196G
/ Patent No. 6821724
/ GENERAL INFORMATION:
/ APPLICANT: Michael Mittlemann
/ APPLICANT: David Mack
/ APPLICANT: David Lockhart
/ APPLICANT: Affymetrix, Inc.
/ TITLE OF INVENTION: Methods of Genetic Analysis
/ FILE REFERENCE: 3101.1
/ CURRENT APPLICATION NUMBER: US/09/396,196G
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/ CURRENT FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: 60/100,678
/ PRIOR FILING DATE: 1998-09-17
/ NUMBER OF SEQ ID NOS: 127806
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO 41487
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-09-396-196G-41487

Alignment Scores:
Pred. No.: 220
Score: 6.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 10.34%
DB: 4
Gaps: 0

US-10-031-158-14 (1-58) x US-09-396-196G-41487 (1-25)

QY 46 ArgAlaThrArgPheTyr 51
DB 22 CGTGGTACAGGTTCTGG 5

RESULT 7
US-09-396-196G-41488/c
/ Sequence 41488, Application US/09396196G
/ Patent No. 6821724
/ GENERAL INFORMATION:
/ APPLICANT: Michael Mittlemann
/ APPLICANT: David Mack
/ APPLICANT: David Lockhart
/ APPLICANT: Affymetrix, Inc.
/ TITLE OF INVENTION: Methods of Genetic Analysis
/ FILE REFERENCE: 3101.1
/ CURRENT APPLICATION NUMBER: US/09/396,196G
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: 60/100,678
/ PRIOR FILING DATE: 1998-09-17
/ NUMBER OF SEQ ID NOS: 127806
/ SOFTWARE: FASTSEQ for Windows Version 4.0
/ SEQ ID NO 41488
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-09-396-196G-41488

Alignment Scores:
Pred. No.: 220
Score: 6.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 10.34%
DB: 4
Gaps: 0

US-10-031-158-14 (1-58) x US-09-396-196G-41488 (1-25)

QY 46 ArgAlaThrArgPheTyr 51
DB 21 CGTGGTACAGGTTCTGG 4

RESULT 8
US-09-396-196G-41489/c
/ Sequence 41489, Application US/09396196G
/ Patent No. 6821724
/ GENERAL INFORMATION:
/ APPLICANT: Michael Mittlemann
/ APPLICANT: David Mack
/ APPLICANT: David Lockhart
/ APPLICANT: Affymetrix, Inc.
/ TITLE OF INVENTION: Methods of Genetic Analysis
/ FILE REFERENCE: 3101.1
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/ CURRENT APPLICATION NUMBER: US/09/396,196G
/ CURRENT FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: 60/100,678
/ PRIOR FILING DATE: 1998-09-17
/ NUMBER OF SEQ ID NOS: 127806
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 41489
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-09-396-196G-41489

Alignment Scores:
Pred. No.: 220
Score: 6.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 10.34%
DB: 4
Gaps: 0

US-10-031-158-14 (1-58) x US-09-396-196G-41489 (1-25)

QY 46 ArgAlaThrArgPheTyr 51
DB 19 CGTCTACAGGTTCTGG 2

RESULT 9
US-09-396-196G-41490/c
/ Sequence 41490, Application US/09396196G
/ Patent No. 6821724
/ GENERAL INFORMATION:
/ APPLICANT: Michael Miltmann
/ APPLICANT: David Mack
/ APPLICANT: David Lockhart
/ APPLICANT: Affymetrix, Inc.
/ TITLE OF INVENTION: Methods of Genetic Analysis
/ FILE REFERENCE: 3101.1
/ CURRENT APPLICATION NUMBER: US/09/396,196G
/ CURRENT FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: 60/100,678
/ PRIOR FILING DATE: 1998-09-17
/ NUMBER OF SEQ ID NOS: 127806
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 41490
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-09-396-196G-41490

Alignment Scores:
Pred. No.: 220
Score: 6.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 10.34%
DB: 4
Gaps: 0

US-10-031-158-14 (1-58) x US-09-396-196G-41490 (1-25)

QY 46 ArgAlaThrArgPheTyr 51
DB 18 CGTCTACAGGTTCTGG 1

RESULT 10
US-09-396-196G-113910/c
/ Sequence 113910, Application US/09396196G
/ Patent No. 6821724
/ GENERAL INFORMATION:
/ APPLICANT: Michael Miltmann
/ APPLICANT: David Mack
/ APPLICANT: David Lockhart
/ APPLICANT: Affymetrix, Inc.
/ TITLE OF INVENTION: Methods of Genetic Analysis
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/ FILE REFERENCE: 3101.1
/ CURRENT APPLICATION NUMBER: US/09/396,196G
/ CURRENT FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: 60/100,678
/ PRIOR FILING DATE: 1998-09-17
/ NUMBER OF SEQ ID NOS: 127806
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 113910
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-09-396-196G-113910

Alignment Scores:
Pred. No.: 220
Score: 6.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 10.34%
DB: 4
Gaps: 0

US-10-031-158-14 (1-58) x US-09-396-196G-113910 (1-25)

QY 18 GlnSerSerArgArgLeu 23
DB 23 CAAGCAGCCGTCGCTT 6

RESULT 11
US-09-396-196G-127372
/ Sequence 127372, Application US/09396196G
/ Patent No. 6821724
/ GENERAL INFORMATION:
/ APPLICANT: Michael Miltmann
/ APPLICANT: David Mack
/ APPLICANT: David Lockhart
/ APPLICANT: Affymetrix, Inc.
/ TITLE OF INVENTION: Methods of Genetic Analysis
/ FILE REFERENCE: 3101.1
/ CURRENT APPLICATION NUMBER: US/09/396,196G
/ CURRENT FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: 60/100,678
/ PRIOR FILING DATE: 1998-09-17
/ NUMBER OF SEQ ID NOS: 127806
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 127372
/ LENGTH: 25
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-09-396-196G-127372

Alignment Scores:
Pred. No.: 220
Score: 6.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 10.34%
DB: 4
Gaps: 0

US-10-031-158-14 (1-58) x US-09-396-196G-127372 (1-25)

QY 19 SerSerArgArgLeu 24
DB 7 AGCAGTCGACAGCTCGAA 24

RESULT 12
US-09-396-196G-127373
/ Sequence 127373, Application US/09396196G
/ Patent No. 6821724
/ GENERAL INFORMATION:
/ APPLICANT: Michael Miltmann
/ APPLICANT: David Mack
/ APPLICANT: David Lockhart
/ APPLICANT: Affymetrix, Inc.
```

;; TITLE OF INVENTION: Methods of Genetic Analysis
;; FILE REFERENCE: 3101.1
;; CURRENT APPLICATION NUMBER: US/09/396,196G
;; CURRENT FILING DATE: 1999-09-15
;; PRIOR APPLICATION NUMBER: 60/100,678
;; PRIOR FILING DATE: 1998-09-17
;; NUMBER OF SEQ ID NOS: 127806
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO: 127373
;; LENGTH: 25
;; TYPE: DNA
;; ORGANISM: mus musculus
US-09-396-196G-127373

Alignment Scores:
Pred. No.: 220 Length: 25
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
DB: 4 Gaps: 0

US-10-031-158-14 (1-58) x US-09-396-196G-127373 (1-25)

OY 19 SerSerArgArgLeuGlu 24
DB 4 AGCAGTCGACAGCTCGAA 21

RESULT 13
US-09-396-196G-127384
; Sequence 127384, Application US/09396196G
; Patent No. 6821724
; GENERAL INFORMATION:
; APPLICANT: Michael Miltmann
; APPLICANT: David Mack
; APPLICANT: David Lockhart
; APPLICANT: Affymetrix, Inc.
; TITLE OF INVENTION: Methods of Genetic Analysis
; FILE REFERENCE: 3101.1
; CURRENT APPLICATION NUMBER: US/09/396,196G
; CURRENT FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: 60/100,678
; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 127806
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 127384
; LENGTH: 25
; TYPE: DNA
; ORGANISM: mus musculus
US-09-396-196G-127384

Alignment Scores:
Pred. No.: 220 Length: 25
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
DB: 4 Gaps: 0

US-10-031-158-14 (1-58) x US-09-396-196G-127384 (1-25)

OY 19 SerSerArgArgLeuGlu 24
DB 1 AGCAGTCGACAGCTCGAA 18

RESULT 14
US-08-186-229-20/c
; Sequence 20, Application US/08186229
; Patent No. 5736316
; GENERAL INFORMATION:
; APPLICANT: Irvine, Bruce D.
; APPLICANT: Kolberg, Janice A.
; APPLICANT: Running, Joyce A.

;; APPLICANT: Urdea, Michael S.
;; TITLE OF INVENTION: HBV PROBES FOR USE IN SOLUTION
;; TITLE OF INVENTION: PHASE SANDWICH HYBRIDIZATION ASSAYS
;; NUMBER OF SEQUENCES: 55
;; CORRESPONDENCE ADDRESS:
;; ADDRESSES: Morrison & Foerster
;; STREET: 755 Page Mill Road
;; CITY: Palo Alto
;; STATE: California
;; COUNTRY: USA
;; ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA: 229
APPLICATION NUMBER: US/08/186,229
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/813,586
FILING DATE: 23-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Thomas E. Clotf1
REGISTRATION NUMBER: 21, 013
REFERENCE/DOCKET NUMBER: 22300-20234.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-813-5600
TELEFAX: 415-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-186-229-20

Alignment Scores:
Pred. No.: 261 Length: 30
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
DB: 1 Gaps: 0

US-10-031-158-14 (1-58) x US-08-186-229-20 (1-30)

OY 18 GlnSerSerArgArgLeu 23
DB 21 CAGTCTCGACGAGATTG 4

RESULT 15
US-08-470-124-20/c
; Sequence 20, Application US/08470124
; Patent No. 5649481
; GENERAL INFORMATION:
; APPLICANT: Urdea, Michael S.
; APPLICANT: Horn, Thomas
; APPLICANT: Chang, Chu-An
; APPLICANT: Warner, Brian
; APPLICANT: Pultz, Timothy J.
; TITLE OF INVENTION: LARGE COMB-TYPE BRANCHED
; TITLE OF INVENTION: POLYNUCLEOTIDES
; NUMBER OF SEQUENCES: 87
CORRESPONDENCE ADDRESS:
ADDRESSES: Morrison & Foerster
STREET: 545 Middlefield Road, Suite 200
CITY: Menlo Park
STATE: California
COUNTRY: USA
ZIP: 94025

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/470,124
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/813,588
 FILING DATE: 23 December 1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Ciotti, Thomas E.
 REGISTRATION NUMBER: 21,013
 REFERENCE/DOCKET NUMBER: 22300-20104.20
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-813-5600
 TELEFAX: 415-327-2951
 TELETYPE: 706141
 INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 30 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-470-124-20

Alignment Scores:

Pred. No.:	261	Length:	30
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	10.34%	Indels:	0
Ds:	2	Gaps:	0

US-10-031-158-14 (1-58) x US-08-470-124-20 (1-30)

Qy	18	GinSerSerArgArgLeu	23
Db	21	CAGTCCTCGMGRAGATTG	4

Search completed: October 16, 2005, 11:02:49
 Job time : 131 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - nucleic search, using frame_plus.p2n model

Run on: October 16, 2005, 08:49:13 ; Search time 2981 Seconds
(without alignments)
740.600 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 58
Sequence: 1 MGFPPSPPLFFFLQLKQSS.....RYGKRRATRFMDPRGTP 58

Scoring table:

OLIGO	Xgapop 60.0, Xgapext 60.0
	Ygapop 60.0, Ygapext 60.0
	Fgapop 6.0, Fgapext 7.0
	Delop 6.0, Delext 7.0

Searched: 34239544 seqs, 19032134700 residues

Word size: 1

Total number of hits satisfying chosen parameters: 45551

Minimum DB seq length: 0
Maximum DB seq length: 30

Post-processing: listing first 45 summaries

Command line parameters:
-MODEL=frame+ p2n model -DEV=xlp
-O=/sgn2.1/USPFO_sepol_p/US10031158/runat_14102005_135843_19614/app_query.fasta_1.199
-DB=EST -QFMT=fastap -SUFPA=p2n olig_gz30.rbt -MINMATCH=0.1 -LOOPEXT=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi
-LIST=45 -DOCALLIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZEB=500 -MINLEN=0 -MAXLEN=30
-USER=US10031158 @CGN 1.1 5180 @runat_14102005_135843_19614 -NCPU=6 -ICPU=3
-NO MAP -LARGEOUTERY -NEG SCORES=0 -WAIT -DSPELOCK=100 -LONGLOC
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

EST :
1: gb_est1 :
2: gb_est2 :
3: gb_hic :
4: gb_est3 :
5: gb_est4 :
6: gb_est5 :
7: gb_est6 :
8: gb_gse1 :
9: gb_gse2 :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6	10.3	28	8	AZ87839 1M0147H22
2	5	8.6	16	5	BQ583458 E011979-0
3	5	8.6	19	8	AZ465954 1M0276B16
4	5	8.6	20	2	AM246466 1M021777.3
5	5	8.6	20	7	CF282165 14BTL--09
6	5	8.6	20	8	AZ832043 2M0112111
7	5	8.6	20	8	AZ957966 2M0225101
8	5	8.6	20	9	AG189044 Pan tlog1
9	5	8.6	20	9	CL660020 PRI0135d

10	5	8.6	21	7	CF338234 RCL1--01-
11	5	8.6	21	8	AZ311619 1M0059X09
12	5	8.6	21	8	AZ341108 1M0073014
13	5	8.6	21	8	AZ589400 1M0398C23
14	5	8.6	21	8	AZ806282 2M0068A15
15	5	8.6	21	8	AZ850337 2M0152H11
16	5	8.6	21	8	AZ943299 2M0203X21
17	5	8.6	22	1	AI688330 wc94C08..x
18	5	8.6	22	1	AJ661940 AJ661940
19	5	8.6	22	7	CF310806 ABR--05-K
20	5	8.6	22	8	AZ317017 1M0035P09
21	5	8.6	22	9	TA231E08Q T. brucei
22	5	8.6	23	7	CF302431 7LEAF--07-
23	5	8.6	23	8	AZ615086 1M0044C14
24	5	8.6	23	8	AZ819376 2M0089P23
25	5	8.6	23	9	TA172005P T. brucei
26	5	8.6	24	1	AU257964 AU257964
27	5	8.6	24	7	CF295238 30DGS--05
28	5	8.6	24	8	CF340367 RCL1--07-
29	5	8.6	24	8	AZ852116 2M0154M12
30	5	8.6	24	9	TA155F120 T. brucei
31	5	8.6	24	9	TA185C06P T. brucei
32	5	8.6	25	1	AI015571 OV09F01.X
33	5	8.6	25	1	AI624473 Ls6Bd11.x
34	5	8.6	25	1	AJ663467 AJ663467
35	5	8.6	25	8	AZ997733 2M0284E22
36	5	8.6	25	8	BH854637 KG07068-S
37	5	8.6	25	9	TA232G09Q T. brucei
38	5	8.6	26	1	AJ666261 AJ666261
39	5	8.6	26	1	AJ683031 AJ683031
40	5	8.6	26	1	AJ685374 AJ685374
41	5	8.6	26	1	AU265518 AU265518
42	5	8.6	26	8	AZ377143 1M0131017
43	5	8.6	26	8	AZ447827 1M0245J08
44	5	8.6	26	9	TA319603Q T. brucei
45	5	8.6	27	5	BQ592207 E012696-0

ALIGNMENTS

RESULT 1
AZ87839 28 bp DNA linear GSS 02-OCT-2000
1M0147H22R Mouse 10kb plasmid UUCGM library Mus musculus genomic
LOCUS
DEFINITION
1M0147H22R Mouse 10kb plasmid UUCGM library Mus musculus genomic
ACCESSION
AZ87839
VERSION
AZ87839.1 GI:10501547
KEYWORDS
SOURCE
GSS.
ORGANISM
Mus musculus (house mouse)
MUS musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 28)
Dunn,D., Aoyagi,A., Barber,M., Baecorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von
Niederhausern,A. and Wright,D.,Weise,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert length: 10000 Std Error: 0.00
Plate: 0147 row: H column: 22
Seq primer: CACACAGGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 28.

TITLE
JOURNAL
COMMENT

FEATURES
SOURCE

Location/Qualifiers

1. 28
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U081M0147H23"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid U081M library"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passages through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g1|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Alignment Scores:

Pred. No.: 5.35e+03 Length: 28
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
DB: 8 Gaps: 0

US-10-031-158-14 (1-58) x AZ387839 (1-28)

OY 8 Proleuphaphelenu 13

DB 11 CCATATTTTCTTCTT 28

RESULT 2

BQ583458 16 bp mRNA linear EST 06-DEC-2002

LOCUS B011979-024-005-011-SP6 MP1Z-ADIS-024-inflorance Beta vulgaris

DEFINITION CDNA clone 024-005-011 5-PRIME, mRNA sequence.

ACCESSION BQ583458

VERSION BQ583458.1 GI:26113035

KEYWORDS EST.

SOURCE Beta vulgaris

ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Amaranthaceae; Beta.

REFERENCE 1 (bases 1 to 16)

AUTHORS Herwig, R., Schulz, B., Weisshaar, B., Hennig, S., Steinfath, M., Drungowski, M., Stahl, D., Wuck, W., Menze, A., O'Brien, D., Lehnach, H. and Radloff, U.

TITLE Construction of a 'unigene' cDNA clone set by oligonucleotide fingerprinting allows access to 25 000 potential sugar beet genes

JOURNAL Plant J. 32 (5), 845-857 (2002)

MEDLINE 22362189

PUBMED 12472698

COMMENT Contact: Weisshaar B

ADIS DNA core facility at MP1Z

Max-Planck-Institute for Plant Breeding Research

Carl-von-Linne Weg 10, 50829 Koeln, Germany

Fax: 00492215062851

Email: weisshaar@mp1z-koeln.mpg.de

FEATURES
SOURCE

Insert Length: 16 Std Error: 0.00
Plate: 5 row: J column: 11
Seq primer: SP6; CAPCATTTAGTGACTACTATAG.

Location/Qualifiers

1. 16
/organism="Beta vulgaris"
/mol_type="mRNA"
/cultivar="KWS2320 (double haploid, monogerm breeding line)"
/db_xref="GABI:183240"
/db_xref="taxon:161934"
/clone="024-005-011"
/tissue_type="inflorescence"
/lab_host="EMDH108"
/clone_lib="MP1Z-ADIS-024-inflorance"
/note="Vector: pCMVSPORT6; Site 1: SalI; Site 2: NotI; cDNA library from sugar beet, library provided by KWS Kleinfurzenbecker Saatgut AG Bindeck, Germany; contact: b.schulz@kws.de; cloning sites SalI-NotI, primer sites and orientation:
SP6-SalI-CCACGCGTCCG-5prime-CDNA-polyA-CC-NotI-T7; Note: Sequencing granted in the context of the GABI-beet project, local PI: Dr. Katharina Schneider, coordinator: Prof. Christian Jung. Sequence submission managed by RZPD/GABI-Primary database: http://gabi.rzpd.de"

ORIGIN

Alignment Scores:

Pred. No.: 3.59e+04 Length: 16
Score: 5.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 8.62% Indels: 0
DB: 5 Gaps: 0

US-10-031-158-14 (1-58) x BQ583458 (1-16)

OY 8 Proleuphaphelenu 12

DB 15 CCCCTTTTTTTTTT 1

RESULT 3

AZ465954 19 bp DNA linear GSS 04-OCT-2000

LOCUS 1M0276816F Mouse 10kb plasmid U081M library Mus musculus genomic

DEFINITION clone U081M0276816 F, genomic survey sequence.

ACCESSION AZ465954

VERSION AZ465954.1 GI:10624079

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 19)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, R., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weis, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

unpublished (2000)

CONTACT: Robert B. Weiss

University of Utah Genome Center

Rm. 300, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: dunn@genetics.utah.edu

Insert Length: 1000 Std Error: 0.00

Plate: 0276 row: E column: 16

Seq primer: CATTGAAACGACGCCACGT

Class: plasmid ends

FEATURES

High quality sequence stop: 19.

Location/Qualifiers

1. .19
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="U08100276816"
 /sex="Male"
 /lab_host="R. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_1ib="Mouse 10kb plasmid U08100276816"
 /note="Vector: PMD42nv, Purified genomic DNA from M. musculus C57BL/6J (male). Purified from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (G14732114[9d]/AF125072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent R. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Alignment Scores:

Pred. No.: 4.19e+04 Length: 19
 Score: 5.00 Matches: 5
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 8.62% Indels: 0
 DB: 8 Gaps: 0

US-10-031-158-14 (1-58) x A2465954 (1-19)

Qy 8 Prolenphephephe 12
 Db 2 CCCCTTTTCTTTT 16

RESULT 4

AW246466 20 bp mRNA 1linear EST 07-JAN-2000
 LOCUS 2821777.3prime NIH_MGC_7 Homo sapiens CDNA clone IMAGE:2821777 3',
 DEFINITION mRNA sequence.

ACCESSION AW246466
 VERSION AW246466.1 GI:6589459
 KEYWORDS EST.

ORGANISM Homo sapiens (human)
 SOURCE Homo sapiens

REFERENCE NIH-MGC http://mgi.nci.nih.gov/
 AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
 TITLE Unpublished (1999)
 JOURNAL Other ESTs: 2821777.5prime

COMMENT
 Email: cgabbs-r@mail.nih.gov
 Tissue Procurement: DCTD/DP DNA Library Preparation: Ling
 Hong/Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E.
 Consortium (LIML) DNA Sequencing by: Berkeley MGC sequencing
 project Clone distribution: MGC clone distribution information can
 be found through the I.M.A.G.E. Consortium/LIML at:
 www.bio.liml.gov/bbrp/image/image.html Base Calling / Quality
 Scores: PHRED from University of Washington Genome Center. Vector
 Trimming: cross_match from University of Washington Genome Center

PHRAP suite. Poly-T identification: patmatch.pl from Berkeley
 Drosophila Genome Project. University of Washington Genome Center:
 http://www.genome.washington.edu Low Quality Sequence: 10
 contiguous PHRED high quality bases following vector sequence. Very
 low Quality Sequence: trace file contained 20 contiguous distinct
 peaks following vector sequence. Polyadenylation: Based upon the
 presence of a XhoI site followed by a run of 14 or more T residues
 at the beginning of the sequence, this cDNA insert was
 polyadenylated.
 Plate: L10C7 row: L column: 2
 High quality sequence stop: 10.
 Location/Qualifiers

FEATURES

source

1. .20
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:2821777"
 /issue_type="small cell carcinoma"
 /cell_line="MGC3"
 /lab_host="DH10B (phage-resistant)"
 /clone_1ib="NIH MGC 7"
 /note="Organ: lung; Vector: pOT87, Site 1: XhoI, Site 2:
 BclRI; CDNA made by oligo-dT priming. Directionally
 cloned into EcoRI/XhoI sites using the following 5'
 adaptor: GGCACGAG(G). Size-selected >500bp for average
 insert size 1.8kb. Library constructed by Ling Hong in
 the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-CDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies)."

ORIGIN

Alignment Scores:

Pred. No.: 4.38e+04 Length: 20
 Score: 5.00 Matches: 5
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 8.62% Indels: 0
 DB: 2 Gaps: 0

US-10-031-158-14 (1-58) x AW246466 (1-20)

Qy 11 Phepheleuglnleu 15
 Db 3 TTTTTCGACGCTT 17

RESULT 5

CF282165 20 bp mRNA 1linear EST 14-AUG-2003
 LOCUS 1487L--09-122.g1 Rice etiolated leaf plasmid cDNA library (1487L)
 DEFINITION Oryza sativa (japonica cultivar-group) CDNA clone 1487L--09-122,
 mRNA sequence.

ACCESSION CF282165
 VERSION CF282165.1 GI:33659552
 KEYWORDS EST.

ORGANISM Oryza sativa (japonica cultivar-group)
 SOURCE Oryza sativa (japonica cultivar-group)

REFERENCE Eukaryota: Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
 Eubartoideae; Oryzaceae; Oryza.
 1 (bases 1 to 20)
 Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
 Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.

AUTHORS Large-scale Sequencing Analysis of Rice ESTs
 TITLE Unpublished (2003)
 JOURNAL Contact: Nahm B.H.

COMMENT Genomics and Genetics Institute, GreenGene Biotech Inc., Division
 of Bioscience and Bioinformatics, Myongji University
 Yongin, Kyonggi, Korea
 Tel: 82 31 320 6193
 Fax: 82 31 321 6355
 Email: bhnahm@bio.com, bhnahm@bio.myongji.ac.kr.

FEATURES
 source
 1. .20
 Location/Qualifiers

/organism="Oryza sativa (japonica cultivar-group)"
/mol_type="mRNA"
/cultivar="Nackdong"
/db_xref="taxon:39947"
/clone="14BL--09-122"
/tissue_type="leaf"
/dev_stage="14 days after germination"
/lab_host="E.coli DH10B"
/clone_id="Rice etiolated leaf plasmid cDNA library (14BL)"
/note="Vector: PCR4-TOPO. Site 1: EcoRI, mRNA was capped with oligoribonucleotides and then used as templates for RT-PCR."

ORIGIN

Alignment Scores:

Pred. No.:	4.38e+04	Length:	20
Score:	5.00	Matches:	5
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	8.62%	Indels:	0
DB:	7	Gaps:	0

US-10-031-158-14 (1-58) x CP282165 (1-20)

Qy 10 PhepPhepLeuGln 14
Db 4 TTTTTCCTTTCCTTA 18

RESULT 6
AZ832043 20 bp DNA linear GSS 20-FEB-2001
LOCUS 2M011211F Mouse 10kb plasmid UUGCM library Mus musculus genomic
DEFINITION clone UUGCM011211 F, genomic survey sequence.
ACCESSION AZ832043
VERSION AZ832043.1 GI:13001951
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 20)
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D., Weis, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
JOURNAL Contact: Robert B. Weiss
COMMENT University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0112 row: 1 column: 11
Seq primer: CGTTGTAAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 20.
location/Qualifiers
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/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCM011211"
/sex="Male"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/clone_id="Mouse 10kb plasmid UUGCM library"
/note="Vector: PWD42nv, Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (g11473211[gblAF129072.1]), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Alignment Scores:

Pred. No.:	4.38e+04	Length:	20
Score:	5.00	Matches:	5
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	8.62%	Indels:	0
DB:	8	Gaps:	0

US-10-031-158-14 (1-58) x AZ832043 (1-20)

Qy 9 LeupPhepPheleu 13
Db 2 CTATTTCTCTCTTA 16

RESULT 7
AZ957966 20 bp DNA linear GSS 27-APR-2001
LOCUS 2M022510F Mouse 10kb plasmid UUGCM library Mus musculus genomic
DEFINITION clone UUGCM022510 F, genomic survey sequence.
ACCESSION AZ957966
VERSION AZ957966.1 GI:13829193
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 20)
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D., Weis, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
JOURNAL Contact: Robert B. Weiss
COMMENT University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0225 row: 1 column: 01
Seq primer: CGTTGTAAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 20.
location/Qualifiers
1..20
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"

/clone="UUGCM0225I01"
/sex="female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUGCM library"
/note="Vector: PMD2nv, Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g14732114|gb|AF129072.1), a copy-number 1 ligated with adaptor complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

ORIGIN

Alignment Scores:

Pred. No.: 4.38e+04 Length: 20
Score: 5.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 8.62% Indels: 0
DB: 8 Gaps: 0

US-10-031-158-14 (1-58) x AZ957966 (1-20)

QY 8 Proleuphpherphe 12
|||||

Db 6 CCCCTTTT TTTT 20

RESULT 8 AG189044 20 bp DNA 1linear GSS 06-MAR-2004
LOCUS Pan troglodytes DNA, clone: RP43-063F05.TU, genomic survey

ACCESSION AG189044
VERSION AG189044.1 GI:45221220

KEYWORDS GSS.
SOURCE Pan troglodytes (chimpanzee)

ORGANISM Pan troglodytes

REFERENCE 1 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Pan.
2 Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J., Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.

TITLE BAC end sequences of library RP-43

JOURNAL Unpublished

AUTHORS 2 (bases 1 to 20)

REFERENCE 1 Park, H., Kim, Y., Kim, S., Han, Y., Woo, T., Park, K., Eun, C.J., Hoon, S.T., Chu, M., Kim, H., Joo, S., Kim, C., Song, W. and Yoo, H.

TITLE Direct Submission

JOURNAL Submitted (07-JAN-2002) Hong-Seog Park, Korea Research Institute of Biotechnology and Biotechnology (KRIBB), Genome Research Center (GRC); 52, Oun-dong, Yuseong-gu, Daejeon 305-333, Korea

COMMENT (E-mail: redstone@mail.krribb.re.kr, URL: http://phs.grc.krribb.re.kr/, Tel: 82-42-866-7181, Fax: 82-42-860-4403)

Clones are derived from the chimpanzee BAC library RP-43. This BAC end was generated during the R&D process and may have higher chance of clone tracking errors.

PRIMERS
Sequencing: T7

LIBRARY Vector : pBACE3.6
R Site 1 : EcoRI

FEATURES
source
R Site 2 : EcoRI.
Location/Qualifiers
1..20

/organism="Pan troglodytes"
/mol_type="genomic DNA"
/db_xref="taxon:9598"
/clone="RP43-063F05.TU"
/sex="male"
/cell_type="lymphocytes"
/clone_lib="RP-43 Chimpanzee Male BAC Library"

ORIGIN

Alignment Scores:

Pred. No.: 4.38e+04 Length: 20
Score: 5.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 8.62% Indels: 0
DB: 9 Gaps: 0

US-10-031-158-14 (1-58) x AG189044 (1-20)

QY 8 Proleuphpherphe 12
|||||

Db 5 CCCCTTTT TTTT 19

RESULT 9

LOCUS CL660020/c 20 bp DNA 1linear GSS 09-JUL-2004
DEFINITION PRI0135d_H08 - PRI0135d_B21 (20) Mixed stage fosmid library of P. pacificus var. California Pristionchus pacificus genomic, genomic survey sequence.

ACCESSION CL660020
VERSION CL660020.1 GI:50144803

KEYWORDS GSS.
SOURCE Pristionchus pacificus

ORGANISM Pristionchus pacificus

REFERENCE 1 Neodiplogasteridae; Pristionchus.
2 Srinivasan, J., Otto, G.W., Kahlow, U., Geisler, R. and Sommer, R.J.

TITLE AppDB: an AcceDB database for the nematode satellite organism Pristionchus pacificus

JOURNAL Nucleic Acids Res. 32 (1), D421-D422 (2004)

COMMENT Contact: Sommer RJ

Evolutionary Biology

Max-Planck-Institute for Developmental Biology

Spemannstr. 37-39, Tuebingen D-72076, Germany

Tel: 00497071601371

Fax: 00497071601498

Email: ralf.sommer@uebingen.mpg.de

This library was generated at Caltech, Pasadena, USA and end sequenced at Vancouver, Canada.

Seq primer: T7

Classes: fosmid ends.

Location/Qualifiers
1..20

/organism="Pristionchus pacificus"
/mol_type="genomic DNA"
/strain="California"
/db_xref="taxon:54126"
/clone_lib="Mixed stage fosmid library of P. pacificus var. California"

/note="Vector: pBplfos-5 Fosmid vector"

Alignment Scores:
Pred. No.: 4.38e+04 Length: 20
Score: 5.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 8.62% Indels: 0
DB: 9 Gaps: 0

US-10-031-158-14 (1-58) x CL660020 (1-20)

QY 5 ProPsearProleu 9
16 CCCCCCTCCCACTA 2

RESULT 10

CF338234 21 bp mRNA linear EST 18-AUG-2003
LOCUS RCL1-01-A19.g1 Regenerated callus lambda phage cDNA library (RCL1)

DEFINITION Oryza sativa (japonica cultivar-group) cDNA clone RCL1-01-A19,
mRNA sequence.

ACCESSION CF338234
CF338234.1 GI:33824849

VERSION EST.
SOURCE Oryza sativa (japonica cultivar-group)

ORGANISM Oryza sativa (japonica cultivar-group) Embryophyta; Tracheophyta;
Eukaryota; Viridiplantae; Streptophyta; Liliopsida; Poales; Poaceae;
Eriatridae; Oryzaceae; Oryza.

REFERENCE 1 (bases 1 to 21)
Kim, J.S., Jun, K.M., Cheong, P.J., Kim, M.J., Lee, T.H., Shin, Y.C.,
Song, S.I., Kim, J.K., Kim, Y.-K. and Nahm, B.H.

TITLE Large-scale Sequencing Analysis of Rice ESTs
JOURNAL Unpublished (2003)

COMMENT

Contact: Nahm B.H.,
Genomics and Genetics Institute, GreenGene Biotech Inc., Division
of BioScience and Bioinformatics, Myongji University
Yongin, Kyonggi, Korea
Tel: 82 31 330 6193
Fax: 82 31 321 6355
Email: bhnahm@gbio.com, bhnahm@bio.myongji.ac.kr.

FEATURES
source Location/Qualifiers

1..21
/organism="Oryza sativa (japonica cultivar-group)"
/mol_type="mRNA"
/cultivar="Nackdong"
/db_xref="taxon:39947"
/clone="RCL1-01-A19"
/tissue_type="callus"
/dev_stage="proliferated callus on 2N6 media for 30 days"
/lab_host="E.coli SOLR"
/clone_1lb="Regenerated callus lambda phage cDNA library
(RCL1)"
/note="vector: pBluescript SK(+); Site 1: SclI; Site 2:
XhoI; cDNA was inserted into lambda Uni-ZAP XR vector at 5'
end with SclI and 3' end with XhoI site. Callus was
induced on 2N6 media for 30 days and cultured for 36hrs on
regenerated media"

ORIGIN

Alignment Scores:
Pred. No.: 4.58e+04 Length: 21
Score: 5.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 8.62% Indels: 0
DB: 7 Gaps: 0

US-10-031-158-14 (1-58) x CF338234 (1-21)

QY 8 Proleuphephe 12
5 CCCCCCTTTTCTTTT 19

RESULT 11

AZ331619/c

LOCUS AZ331619 21 bp DNA linear GSS 29-SEP-2000
DEFINITION IM0059K09R Mouse 10kb plasmid UUCGM library Mus musculus genomic
clone UUCGM0059K09 R. genomic survey sequence.

ACCESSION AZ331619
AZ331619.1 GI:10394486

KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 21)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Rellly, M., Rose, M., Rose, R., Stokes, R., Tinney, A., von
Niederhausen, A. and Wright, D. Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLCC, UT
84112, USA

84112, USA
Tel: 801 585 5606
Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
Plate: 0059 Row: K Column: 09
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends

High quality sequence stop: 21.

FEATURES
source Location/Qualifiers

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/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCGM0059K09"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_1lb="Mouse 10kb plasmid UUCGM library"
/note="vector: pMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pMD42 (g1|4732114|9b|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN

Alignment Scores:
Pred. No.: 4.58e+04 Length: 21
Score: 5.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 8.62% Indels: 0
DB: 8 Gaps: 0

US-10-031-158-14 (1-58) x AZ331619 (1-21)

QY 9 Leuphepheleu 13
21 TTTTCTTTTCTTTT 7

RESULT 12

AZ341108/c

LOCUS AZ341108 21 bp DNA linear GSS 29-SEP-2000
 DEFINITION IM0073014F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC1M0073014 F, genomic survey sequence.
 ACCESSION AZ341108
 VERSION AZ341108.1 GI:10417030
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 21)
 REFERENCE
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
 Niederhausern, A. and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 TITLE Unpublished (2000)
 JOURNAL
 COMMENT Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0073 row: 0 column: 14
 Seq primer: CGTGTAAACACGCGCCAGT
 Class: Plasmid ends
 High quality sequence stop: 21.
 Location/Qualifiers
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 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC1M0073014"
 /sex="Male"
 /lab_host="B. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /note="Vector: PWD42nv, Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pMD42 (g1|4732114|gb|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent B. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

ORIGIN

Alignment Scores:

Pred. No.: 4.58e+04 Length: 21
 Score: 5.00 Matches: 5
 Percent Similarity: 100.00% Conservatve: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 8.62% Indels: 0
 DB: 8 Gaps: 0

US-10-031-158-14 (1-58) x AZ341108 (1-21)

Oy 8 Proleuphephe 12

Db 19 |||||
 19 CCCCTTTT TTTT 5
 RESULT 13
 AZ589400
 LOCUS AZ589400
 DEFINITION IM0398C23F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC1M0398C23 F, genomic survey sequence.
 ACCESSION AZ589400
 VERSION AZ589400.1 GI:11711590
 KEYWORDS GSS.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 21)
 REFERENCE
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
 Niederhausern, A. and Wright, D., Weiss, R.
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 TITLE Unpublished (2000)
 JOURNAL
 COMMENT Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0398 row: C column: 23
 Seq primer: CGTGTAAACACGCGCCAGT
 Class: Plasmid ends
 High quality sequence stop: 21.
 Location/Qualifiers
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 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC1M0398C23"
 /sex="Male"
 /lab_host="B. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /note="Vector: PWD42nv, Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of pMD42 (g1|4732114|gb|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent B. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

ORIGIN

Alignment Scores:

Pred. No.: 4.58e+04 Length: 21
 Score: 5.00 Matches: 5
 Percent Similarity: 100.00% Conservatve: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 8.62% Indels: 0

DB: 8 Gaps: 0

QY 8 ProLeuphPhephe 12
 |||||
 5 CCCCTTTTCTTTT 19

RESULT 14
 AZ806282/c 21 bp DNA linear GSS 20-FEB-2001

LOCUS
 DEFINITION 2M0152H1F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC2M0152H1 F, genomic survey sequence.

ACCESSION
 AZ806282
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM

Mus musculus (house mouse)

REFERENCE
 AUTHORS
 1 (bases 1 to 21)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Rellily, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
 Niederhausern, A. and Wright, D., Weiss, R.

TITLE
 Mouse whole genome scaffolding with paired end reads from 10kb

JOURNAL
 COMMENT
 Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA

1. 21
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 1000 Std Error: 0.00
 Plate: 0068 row: A column: 15
 Seg primer: CGTTGTAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence stop: 21.

FEATURES
 source

1. 21
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0152H1F"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_1lb="Mouse 10kb plasmid UUGC1M library"
 /note="Vector: PMD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PMD42 (g[4732114]gb|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

Pred. No.: 4.58e+04 Length: 21
 Score: 5.00 Matches: 5
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 8.62% Indels: 0
 DB: 8 Gaps: 0

US-10-031-158-14 (1-58) x AZ806282 (1-21)

QY 7 SerProLeuphPhephe 11
 |||||
 16 TCCCTTTTCTTTT 2

RESULT 15
 AZ850337/c 21 bp DNA linear GSS 21-FEB-2001

LOCUS
 DEFINITION 2M0152H1F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC2M0152H1 F, genomic survey sequence.

ACCESSION
 AZ850337
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM

Mus musculus (house mouse)

REFERENCE
 AUTHORS
 1 (bases 1 to 21)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
 Rellily, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
 Niederhausern, A. and Wright, D., Weiss, R.

TITLE
 Mouse whole genome scaffolding with paired end reads from 10kb

JOURNAL
 COMMENT
 Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
 84112, USA

1. 21
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 1000 Std Error: 0.00
 Plate: 0152 row: H column: 11
 Seg primer: CGTTGTAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence stop: 21.

FEATURES
 source

1. 21
 /organism="Mus musculus"
 /mol_type="genomic DNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0152H1F"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
 /clone_1lb="Mouse 10kb plasmid UUGC1M library"
 /note="Vector: PMD42nv; Purified genomic DNA from M.
 musculus C57BL/6J (male) was obtained from the Jackson
 Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA
 was hydrodynamically sheared by repeated passage through a
 0.005 inch orifice at constant velocity. The sheared DNA
 was blunt end-repaired with T4 DNA polymerase and T4
 polynucleotide kinase. Adaptor oligonucleotides were
 ligated to the blunt ends in high molar excess. The
 adaptor DNA was purified and size-selected for a 9.5 to
 10.5 kb range using preparative agarose gel
 electrophoresis. Vector DNA was prepared from a derivative
 of PMD42 (g[4732114]gb|AF129072.1), a copy-number
 inducible derivative of plasmid R1. The vector was ligated
 with adaptors complementary to the insert adaptors and
 purified. The sheared, adaptor mouse DNA was annealed to
 adaptor vector DNA, and transformed into
 chemically-competent E. coli XL10-Gold (Stratagene) cells
 and selected for ampicillin resistance."

chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN

Alignment Scores:

Pred. No.:	4.58e+04	Length:	21
Score:	5.00	Matches:	5
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	8.62%	Indels:	0
DB:	8	Gaps:	0

US-10-031-158-14 (1-58) x AZ850337 (1-21)

Qy	6	ProSerProLeuPhe	10
Db	16	CCCTCCCCCTCTCTTT	2

Search completed: October 16, 2005, 11:00:30
Job time : 2985 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - nucleic search, using frame_plus.p2n model

Run on: October 16, 2005, 07:40:42 ; Search time 420 Seconds
(without alignments)
817.488 Million cell updates/sec

Title: US-10-031-158-14
Perfect score: 58
Sequence: 1 MOMPSPPLFFFLQLKQSS.....RYGKKRATRFMDRRGTP 58

Scoring table: OLIGO
Xgapop 60.0, Xgapext 60.0
Ygapop 60.0, Ygapext 60.0
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 4390206 seqs, 2959870667 residues

Word size: 1

Total number of hits satisfying chosen parameters: 3518947

Minimum DB seq length: 0
Maximum DB seq length: 30

Post-processing: Listing first 45 summaries

Command line parameters:
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-O=/cgn2.1/USPTO_spool_p/US10031158/runat_14102005_135842_19595/app_query.fasta_1.199
-DB=N_Geneseq_16Dec04 -QFMT=fastap -SUPPLX=p2n_olig_gz30.rng -MINMATCH=0.1
-LOOPEXT=0 -LOOPEXT=0 -UNITS=bases -START=1 -END=-1 -MATRIX=oligo
-TRANS=human40.cdi -LIST=45 -DOCLIGN=200 -THR SCORE=quality -THR MIN=1
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=30
-USER=US10031158 @CGN 1.1 708 @runat_14102005_135842_19595 -NCPU=6 -ICPU=3
-NO MAP -LARGEOUTER -NEG SCORES=0 -WAIT -DSBLOCK=100 -LONGLOC
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : N_Geneseq_16Dec04:*
1: geneeqn1980s:*
2: geneeqn1990s:*
3: geneeqn2000s:*
4: geneeqn2001as:*
5: geneeqn2001bs:*
6: geneeqn2002as:*
7: geneeqn2002bs:*
8: geneeqn2003as:*
9: geneeqn2003bs:*
10: geneeqn2003cs:*
11: geneeqn2003ds:*
12: geneeqn2004as:*
13: geneeqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	8	13.8	27	4	AAFS6408 Human pro
C 2	8	13.8	27	4	AAFS6409 Human pro
C 3	7	12.1	21	2	AAQ04627 CTG prime
C 4	7	12.1	25	10	ADD28130 HIV-1 LTR
C 5	6	10.3	19	6	ABX97507 Human NOV

C 6	6	10.3	19	12	ADN62410	Adh62410 Human NOV
C 7	6	10.3	20	3	AAZ76949	Aaz76949 Human bia
C 8	6	10.3	20	4	AAH23198	Aah23198 Human MMT
C 9	6	10.3	20	8	ABZ10328	Abz10328 Hematopo
C 10	6	10.3	20	10	ADB54415	Adb54415 PCR prime
C 11	6	10.3	20	10	ADC69900	Adc69900 Primer 01
C 12	6	10.3	20	10	ADE77580	Adet77580 DRB3*0212
C 13	6	10.3	20	10	ABZ85409	Abz85409 Human o11
C 14	6	10.3	20	11	ABD21639	Abd21639 S100 calic
C 15	6	10.3	20	13	ADS89854	Ad889854 Human PCR
C 16	6	10.3	22	2	AAV15960	AAV15960 NBCCS (PT
C 17	6	10.3	23	6	AAQ39184	Aaq39184 Mouse 572
C 18	6	10.3	23	10	ADD28129	Add28129 HIV-1 LTR
C 19	6	10.3	25	9	ACI78562	Act78562 Human m1c
C 20	6	10.3	25	9	ACK21141	Act21141 Human m1c
C 21	6	10.3	25	9	ACI31211	Act31211 Human m1c
C 22	6	10.3	25	9	ACI67768	Act67768 Human m1c
C 23	6	10.3	25	9	ACI83555	Act83555 Human m1c
C 24	6	10.3	25	9	ACI78563	Act78563 Human m1c
C 25	6	10.3	25	10	ADB86664	Ad886664 Frizzled-
C 26	6	10.3	26	8	ABX94983	Abx94983 Barley RA
C 27	6	10.3	26	8	ABX94982	Abx94982 Barley Ra
C 28	6	10.3	27	12	ADP70068	Adp70068 Novel mam
C 29	6	10.3	28	10	ADF43026	Adf43026 Bacterial
C 30	6	10.3	30	2	AAQ45800	Aaq45800 HBV ampli
C 31	6	10.3	30	2	AAV07797	Aav07797 HBV, 71 am
C 32	6	10.3	30	2	AAV83026	Aav83026 Amplifier
C 33	6	10.3	30	6	ABX69492	Abx69492 Novel Hel
C 34	6	10.3	30	10	ADC10250	Adc10250 Human NOV
C 35	6	10.3	30	12	ADM18572	Adm18572 Human sub
C 36	6	10.3	30	12	ADP08610	Adp08610 PCR prime
C 37	6	8.6	15	4	AAH46713	Aah46713 Type 11 p
C 38	5	8.6	15	4	ABA02603	Abao2603 PTEN targ
C 39	5	8.6	15	4	AAFS6222	Aaf6222 tGFBP2 o1
C 40	5	8.6	15	4	AAFS2874	Aaf52874 tGF-I o11
C 41	5	8.6	16	2	AAQ25455	Aaq25455 Purine ri
C 42	5	8.6	16	2	AAQ44151	Aaq44151 Sequence
C 43	5	8.6	16	2	AAQ43987	Aaq43987 HIV-1 tr1
C 44	5	8.6	16	2	AAQ45376	Aaq45376 Polypurin
C 45	5	8.6	16	2	AAQ95127	Aaq95127 Oligonuci

ALIGNMENTS

RESULT 1:	AAFS6408/c	standard; DNA; 27 BP.
ID	AAFS6408	
XX		
AC	AAFS6408;	
XX		
DT	12-APR-2001	(first entry)
XX		
DE	Human prostate specific TCRgamma transcript PCR primer TCRgamma-R2.	
XX		
KW	Human; TARP; prostate cancer; breast cancer; immunotherapy;	
KW	T cell receptor gamma alternate reading frame protein; TCRgamma;	
KW	PCR primer; se.	
XX		
OS	Homo sapiens.	
XX		
PN	WO200104309-A1.	
XX		
PD	18-JAN-2001.	
XX		
PF	12-JUL-2000; 2000WO-US019039.	
XX		
PR	13-JUL-1999; 99US-0143560P.	
PR	01-OCT-1999; 99US-0157471P.	
XX		
PA	(USSH-) US DEPT HEALTH & HUMAN SERVICES.	
XX		
PI	Pastan I, Essand M, Lee B, Vasmatazis G, Wolfgang C;	

DR WPI; 2001-081050/09.
 XX Isolated T-cell receptor gamma alternate reading frame protein useful for
 PT diagnosing and raising an immune response to prostate cancer and breast
 PT cancer.
 XX
 PS Disclosure; Fig 8; 85pp; English.
 XX
 CC The present invention provides the protein and coding sequences of the
 CC human T cell receptor alternate reading frame protein (TARP). This
 CC protein is expressed in prostate and breast cancer cells at higher levels
 CC than normal and so can be used in the immunotherapy of these cancers, as
 CC well as their detection and prevention
 CC
 SQ Sequence 27 BP; 6 A; 4 C; 8 G; 9 T; 0 U; 0 Other;
 XX
 Alignment Scores:
 Pred. No.: 12 Length: 27
 Score: 8.00 Matches: 8
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 13.79% Indels: 0
 DB: 4 Gaps: 0
 US-10-031-158-14 (1-58) x AAF56408 (1-27)
 QY 13 LeuGINLeuLYSGInSerSer 20
 DB 26 CTTCAATTGCTGTAACAAAGCTCC 3
 RESULT 2
 AAF56409/C
 ID AAF56409 standard; DNA; 27 BP.
 XX
 AC AAF56409;
 XX
 DT 12-APR-2001 (first entry)
 DE Human prostate specific TCRgamma transcript PCR primer TCRgamma-R3.
 XX
 DE Human; TARP; prostate cancer; breast cancer; immunotherapy;
 XX
 KW T cell receptor gamma alternate reading frame protein; TCRgamma;
 KW PCR primer; ss.
 XX
 KW Homo sapiens.
 OS
 XX
 PN MO200104309-A1.
 PD 18-JAN-2001.
 PF 12-JUL-2000; 2000MO-US019039.
 PR 13-JUL-1999; 99US-0143560P.
 PR 01-OCT-1999; 99US-0157471P.
 PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
 PI Pastan I, Essand M, Lee B, Vasmatazis G, Wolfgang C;
 DR WPI; 2001-081050/09.
 XX
 PT Isolated T-cell receptor gamma alternate reading frame protein useful for
 PT diagnosing and raising an immune response to prostate cancer and breast
 PT cancer.
 XX
 PS Disclosure; Fig 8; 85pp; English.
 XX
 CC The present invention provides the protein and coding sequences of the
 CC human T cell receptor alternate reading frame protein (TARP). This
 CC protein is expressed in prostate and breast cancer cells at higher levels
 CC than normal and so can be used in the immunotherapy of these cancers, as
 CC well as their detection and prevention
 CC

SQ Sequence 27 BP; 10 A; 6 C; 6 G; 5 T; 0 U; 0 Other;
 XX
 Alignment Scores:
 Pred. No.: 12 Length: 27
 Score: 8.00 Matches: 8
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 13.79% Indels: 0
 DB: 4 Gaps: 0
 US-10-031-158-14 (1-58) x AAF56409 (1-27)
 QY 23 LeuGInHsrTh-PheValPheIeu 30
 DB 26 CTGAACATACCTTGTCTCTTG 3
 RESULT 3
 AA004627/C
 ID AA004627 standard; DNA; 21 BP.
 XX
 AC AA004627;
 XX
 DT 25-MAR-2003 (revised)
 DT 31-OCT-2002 (revised)
 DT 02-OCT-1990 (first entry)
 DE CTG primer for T-cell receptor gene.
 XX
 DE Primer; T-cell receptor; C-region; gamma chain; lymphoid leukaemia;
 XX
 KW Lymphoma; PCR; ss.
 KW
 XX
 OS Synthetic.
 OS
 XX
 PN WO9004648-A.
 PD 03-MAY-1990.
 PF 20-OCT-1988; 88AU-00001057.
 PR 20-OCT-1988; 88AU-00001057.
 PA (MORU/) MORLEY A A.
 PI Bristol MJ;
 DR WPI; 1990-164030/21.
 PT Detection of lymphoid leukaemia and/or lymphoma - by determ. of
 PT homogeneity or heterogeneity of the length of immunoglobulin and/or T-
 PT receptor gene segments.
 XX
 PS Claim 12; Page 18; 23pp; English.
 CC The primer binds to the C-region of T-receptor gamma chain gene. Using
 CC the primer T-receptor gene segments can then be used to determine homogeneity or
 CC of the amplified fragments can then be used to determine homogeneity or
 CC heterogeneity. This provides a rapid and sensitive diagnostic test for
 CC leukaemia/lymphoma by detection of malignancy and determ. of the B- or T-
 CC lymphocyte origin of the tumour. See also AA004603-004640. (Updated on 31
 CC OCT-2002 to add missing OS field.) (Updated on 25-MAR-2003 to correct PA
 CC field.)
 XX
 SQ Sequence 21 BP; 4 A; 4 C; 5 G; 8 T; 0 U; 0 Other;
 XX
 Alignment Scores:
 Pred. No.: 86.1 Length: 21
 Score: 7.00 Matches: 7
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 12.07% Indels: 0
 DB: 2 Gaps: 0
 US-10-031-158-14 (1-58) x AA004627 (1-21)

0y 15 LeuLeuLyGInSeSerzay 21
 |||||
 Db 21 TTGCTGAACAAAGCTCCAGA 1
 |||||
 RESULT 4
 ID ADD28130
 AC ADD28130 standard; DNA; 25 BP.
 XX ADD28130;
 XX 15-JAN-2004 (first entry)
 XX
 XX HIV-1 LTR region DNA fragment PNA1a.
 DE
 XX conjugate; peptide nucleic acid; PNA; transport mediator;
 KW addressing protein; nuclear importation; penetratin family; tat gene;
 KW rev gene; anti-HIV; primer; ss.
 XX
 XX Human immunodeficiency virus 1.
 OS
 XX
 XX
 FH Key Location/Qualifiers
 FT miec_feature 19..21
 FT /tag= a
 FT /note= "DNA sequence interrupted by an undisclosed
 FT modified_base 25
 FT peptide linker"
 FT /tag= b
 FT /mod_base= OTHER
 FT /note= "optionally pseudo-isocytosine or cytosine"
 FN
 PN WO2003006065-A2.
 XX
 XX 23-JAN-2003.
 PD
 XX
 XX 12-JUL-2002; 2002WO-DE002564.
 PF
 XX 12-JUL-2001; 2001DE-01033307.
 PR
 XX
 XX (DEKR-) DEUT KREBSFORSCHUNGSGEZENTRUM STIFTUNG.
 PA
 XX
 XX Braun K, Waldeck W, Pipkorn R, Braun I, Debus J;
 PI
 XX WPI, 2003-256334/25.
 DR
 XX
 XX New conjugate for delivery to the cell nucleus, useful for treating
 PT infection by human immune deficiency virus, comprises targeting peptides
 PT and peptide nucleic acid.
 PT
 XX
 PS Disclosure; Page 8; 30pp; German.
 XX
 XX This invention describes a novel conjugate for mediating specific
 CC transport to the cell nucleus of a peptide nucleic acid (PNA) that
 CC hybridizes to an HIV (human immune deficiency virus) gene, or part of it.
 CC The conjugate comprises a transport mediator for the cell membrane, an
 CC addressing protein or peptide for nuclear importation and the PNA being
 CC delivered. The transport mediator is a peptide or protein able to pass
 CC through the plasma membrane, particularly derived from the penetratin
 CC family protein. The PNA is designed to hybridize to at least part of the
 CC tat or rev genes and is especially targeted to the long terminal repeat
 CC of the polypurine tract, the central DNA flap, Nef, NCp7 or the gag slice
 CC site, at the RNA level. The conjugate has the structure transport
 CC mediator-addressing protein-PNA, particularly with a spacer (e.g.
 CC polylysine or a synthetic polymer) between addressing protein and PNA.
 CC The conjugate of the invention has anti-HIV activity. The transport
 CC mediator/addressing protein combination provide rapid and efficient
 CC transport of PNA to the nucleus and PNA is resistant to proteases and
 CC nucleases. The conjugate can be used in both early and late stages of
 CC infection. This sequence represents a fragment of HIV-1 LTR region used
 CC to construct PNAs used in the method of the invention.
 XX
 XX Sequence 25 BP; 2 A; 9 C; 0 G; 14 T; 0 U; 0 Other;

Alignment Scores:			
Pred. No.:	101	Length:	25
Score:	7.00	Matches:	7
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	12.07%	Indels:	0
DB:	10	Gaps:	0
US-10-031-158-14 (1-58) x ADD28130 (1-25)			
Qy	7 SerProLeuPhePheLeu 13		
Db	4 TCCCCCTTTCTTTTCTT 24		
RESULT 5			
ID	ABX97507/c		
XX	ABX97507 standard; DNA; 19 BP.		
AC	ABX97507;		
XX			
DT	20-MAY-2003 (first entry)		
XX			
DE	Human NOV-associated forward primer from primer-probe set Ag3505.		
XX			
KM	NOVX, cytosstatic; cardiac; antiarteriosclerotic; antiasthmatic; cancer;		
KW	hypotensive; cardiomyopathy; bronchial asthma; gene therapy; vaccine;		
XX	human; PCK; primer; ss.		
OS	Homo sapiens.		
XX			
PN	WO200272757-A2.		
XX			
PD	19-SEP-2002.		
XX			
PF	08-MAR-2002; 2002WO-US006908.		
XX			
PR	08-MAR-2001; 2001US-0274101P.		
PR	08-MAR-2001; 2001US-0274194P.		
PR	08-MAR-2001; 2001US-0274281P.		
PR	08-MAR-2001; 2001US-0274322P.		
PR	09-MAR-2001; 2001US-0274849P.		
PR	12-MAR-2001; 2001US-0275235P.		
PR	13-MAR-2001; 2001US-0275578P.		
PR	13-MAR-2001; 2001US-0275579P.		
PR	13-MAR-2001; 2001US-0276010P.		
PR	14-MAR-2001; 2001US-0276000P.		
PR	16-MAR-2001; 2001US-0276776P.		
PR	19-MAR-2001; 2001US-0276994P.		
PR	20-MAR-2001; 2001US-0277239P.		
PR	20-MAR-2001; 2001US-0277321P.		
PR	20-MAR-2001; 2001US-0277377P.		
PR	21-MAR-2001; 2001US-0277791P.		
PR	22-MAR-2001; 2001US-0277833P.		
PR	23-MAR-2001; 2001US-0278152P.		
PR	26-MAR-2001; 2001US-0278894P.		
PR	27-MAR-2001; 2001US-0278999P.		
PR	27-MAR-2001; 2001US-0279036P.		
PR	28-MAR-2001; 2001US-0279344P.		
PR	30-MAR-2001; 2001US-0277338P.		
PR	30-MAR-2001; 2001US-0277995P.		
PR	30-MAR-2001; 2001US-0280233P.		
PR	02-APR-2001; 2001US-0280802P.		
PR	02-APR-2001; 2001US-0280822P.		
PR	02-APR-2001; 2001US-0280900P.		
PR	04-APR-2001; 2001US-0281194P.		
PR	13-APR-2001; 2001US-0283675P.		
PR	30-APR-2001; 2001US-0287424P.		
PR	02-MAY-2001; 2001US-0288066P.		
PR	03-MAY-2001; 2001US-0288342P.		
PR	03-MAY-2001; 2001US-0288588P.		
PR	15-MAY-2001; 2001US-0291190P.		
PR	16-MAY-2001; 2001US-0291099P.		
PR	16-MAY-2001; 2001US-0291240P.		

27-SEP-2001; 2001US-0325681P.
 PR 18-OCT-2001; 2001US-0330380P.
 PR 31-OCT-2001; 2001US-0335301P.
 PR 14-NOV-2001; 2001US-0332172P.
 PR 14-NOV-2001; 2001US-0332271P.
 PR 14-NOV-2001; 2001US-0332272P.
 PR 14-NOV-2001; 2001US-0333184P.
 PR 14-NOV-2001; 2001US-0333272P.
 PR 21-NOV-2001; 2001US-0332094P.
 PR 03-DEC-2001; 2001US-0337426P.
 PR 03-DEC-2001; 2001US-0338092P.
 PR 04-DEC-2001; 2001US-0337185P.
 PR 03-JAN-2002; 2002US-0345705P.
 XX
 (PADI/) PADIGARU M.
 PA (SPYT/) SPYTEK K. A.
 PA (SHEN/) SHENOV S. G.
 PA (TAUP/) TAUPIER R. J.
 PA (PENNA/) PENNA C. E. A.
 PA (LILL/) LI L.
 PA (ZERR/) ZERRUSEN B. D.
 PA (GUSE/) GUSEV V. Y.
 PA (JIW/) JI W.
 PA (GORM/) GORMAN L.
 PA (MILL/) MILLER C. E.
 PA (KEKU/) KEKUDA R.
 PA (PATT/) PATTURAJAN M.
 PA (GANG/) GANGOLLI E. A.
 PA (VERN/) VERNET C. A. M.
 PA (GUOX/) GUO X. S.
 PA (TCHER/) TCHERNEV V. T.
 PA (FERN/) FERNANDES E. R.
 PA (CASW/) CASMAN S. J.
 PA (MALY/) MALYANKAR U. M.
 PA (GERL/) GERLACH V.
 PA (LITU/) LITU Y.
 PA (ANDE/) ANDERSON D. W.
 PA (SPAD/) SPADERNA S. K.
 PA (CATT/) CATTERTON E.
 PA (LEIT/) LEITE M. W.
 PA (ZHON/) ZHONG H.
 PA (ALSO/) ALSOOROCK J. P.
 PA (LEPL/) LEPLEY D. M.
 PA (RIEG/) RIEGER D. K.
 PA (BURG/) BURGESS C. E.
 XX
 Padigaru M., Spytek KA, Shenoy SG, Taupier RJ, Pena CE, Li L,
 PI Zernusen BD, Gusev VY, Ji W, Gorman L, Miller CE, Kekuda R,
 PI Paturajan M, Gangolli EA, Vernet CM, Guo XS, Tchernev VT,
 PI Fernandes ER, Casman SJ, Malyankar UM, Gerlach V, Liu Y,
 PI Anderson DW, Spaderna SK, Catterton E, Leite MW, Zhong H,
 PI Alsobrook JP, Lepley DM, Rieger DK, Burgess CE;
 XX
 WPI; 2004-225693/21.
 XX
 New NOVX polypeptides and nucleic acid molecules useful for diagnosing,
 PT preventing or treating NOVX-associated disorders, e.g. cancer, diabetes,
 PT infection or obesity, and in chromosome mapping, tissue typing or
 PT pharmacogenomics.
 XX
 Example C; SEQ ID NO 680; 786bp; English.
 XX
 The invention relates to an isolated polypeptide (designated NOVX, or
 CC NOVX-NOV127) comprising a sequence selected from 178 fully defined amino
 CC acid sequences (and their mature forms, variants and fragments). Also
 CC included are an isolated nucleic acid molecule encoding NOVX, a vector
 CC comprising the nucleic acid, a cell comprising the vector, methods for
 CC determining the presence or amount of the polypeptide or the nucleic acid
 CC molecule in a sample, methods for determining the presence of or
 CC predisposition to a disease associated with altered levels of expression
 CC of the above polypeptide or nucleic acid molecule in a first mammalian
 CC subject, a method for identifying an agent that binds to the above
 CC polypeptide, a method for identifying a potential therapeutic agent for

CC use in the treatment of a pathology that is related to aberrant
 CC expression or physiological interactions of the polypeptide, a method of
 CC screening for a modulator of activity or of latency or predisposition to
 CC a pathology associated with the polypeptide and a method for modulating
 CC the activity of the polypeptide cited above. The composition and methods
 CC are useful for diagnosing, preventing or treating diseases such as
 CC diabetes, obesity, infectious diseases, anorexia, cancer-associated
 CC cachexia, cancer, neurodegenerative disorders like Alzheimer's disease or
 CC Parkinson's disease, immune disorders, haematopoietic disorders,
 CC dyslipidaemias, and other chronic diseases. These may also be used in
 CC chromosome mapping, tissue typing, preventive medicine and
 CC pharmacogenomics. The polypeptides are also useful as vaccines. The
 CC present sequence is an RT0-PCR (real time quantitative PCR) primer used
 CC to assay tissue specific expression of a NOVX mRNA.
 XX
 SO Sequence 19 BP; 4 A; 6 C; 5 G; 4 T; 0 U; 0 Other;
 Alignment Scores:
 Score: 714 Length: 19
 Pred. No.: 6.00 Matches: 6
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 10.34% Indels: 0
 DB: 12 Gaps: 0
 US-10-031-158-14 (1-58) x ADM62410 (1-19)
 QY 48 Thirayphetrapiaspro 53
 DB 19 ACTAGATTCTGGACCCG 2
 RESULT 7
 AAZ76949
 ID AAZ76949 standard; DNA; 20 BP.
 AC AAZ76949;
 XX
 DT 10-SEP-2001 (first entry)
 XX
 DB Human biallelic marker downstream amplification primer SEQ ID NO:11305.
 XX
 KW Human genome; biallelic marker; high density disequilibrium map;
 KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
 KW haplotyping; hybridisation; identification; characterisation;
 KW amplification; single nucleotide polymorphism; SNP; PCR primer;
 KW diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO954500-A2.
 XX
 PD 28-OCT-1999.
 XX
 PF 21-APR-1999; 99WO-IB000822.
 XX
 PR 21-APR-1998; 98US-0082614P.
 PR 23-NOV-1998; 98US-0109732P.
 XX
 PA (BEST) GENSET.
 XX
 PI Cohen D, Blumenfeld M, Chumakov I;
 XX
 DR WPI; 2000-013267/01.
 XX
 PT Novel biallelic markers used to construct a high density disequilibrium
 PT map of the human genome.
 XX
 PS Claim 9; Page 2640; 2745bp; English.
 XX
 CC AAZ65654 to AAZ69578 represent human biallelic markers from the present
 CC invention, which contain a polymorphic base at position 24 of their
 CC nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
 CC primers for the biallelic markers. The biallelic markers of the invention

CC have a variety of uses: they can be used for high density mapping of the
 CC human genome, and in complex association studies and haplotyping studies
 CC which are useful in determining the genetic basis for disease states.
 CC Compositions and methods of the invention can also be useful for the
 CC identification of the targets for the development of pharmaceutical
 CC agents and diagnostic methods, as well as the characterisation of the
 CC differential efficacious responses to and side effects from
 CC pharmaceutical agents acting on a disease as well as other treatment.
 CC N.B. The SEQ ID Nos 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
 CC 3367, are not actually given a sequence in the Sequence Listing from the
 CC present invention

XX SQ Sequence 20 BP; 2 A; 5 C; 2 G; 11 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.:	749	Length:	20
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	10.34%	Indels:	0
DB:	3	Gaps:	0

US-10-031-158-14 (1-58) x AA276949 (1-20)

Oy 8 Proleuphaphelenu 13
 DB 3 CCCCATTTTTTCTCG 20

AAH23198
 ID AAH23198 standard; DNA; 20 BP.

AC AAH23198;
 XX
 XX 17-SBP-2001 (first entry)

DE Human MMIF mRNA inhibiting antisense oligo ISIS #112694.

XX Macrophage migration inhibitory factor; MMIF; antisense; neurological;
 XX hyperproliferation; neutrotropic; antihormonal; immunosuppressive; human;
 XX antinflammatory; cytostatic; ss.

OS Synthetic.
 OS Homo sapiens.

PN WO200153317-A1.

PD 26-JUL-2001.

PF 16-JAN-2001; 2001WO-US001475.

PR 20-JAN-2000; 2000US-00489869.

PA (ISIS-) ISIS PHARM INC.

PI Murray SF, Cowseart LM, Wyatt JR;

DR WPI; 2001-451899/48.

PT New antisense compound(s) are useful to inhibit a nucleic acid molecule
 encoding macrophage migration inhibitory factor.

PS Claim 3; Page 82; 105pp; English.

XX The invention relates to antisense oligonucleotides 8-30 nucleotides in
 CC length targeted to a nucleic acid molecule encoding macrophage migration
 CC inhibitory factor (MMIF), where the antisense compound specifically
 CC hybridizes with and inhibits the expression of MMIF. The antisense
 CC nucleotides are useful for the treatment of a disease or condition
 CC associated with MMIF such as neurological, hormonal, immune, inflammatory
 CC or hyperproliferative disorder. Sequences AAH23191-268 represent chimeric
 CC antisense phosphorothioate oligonucleotides used for inhibition of human
 CC MMIF mRNA expression

XX SQ Sequence 20 BP; 6 A; 7 C; 7 G; 0 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.:	749	Length:	20
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	10.34%	Indels:	0
DB:	4	Gaps:	0

US-10-031-158-14 (1-58) x AAH23198 (1-20)

Oy 52 AppProAArgGlyThr 57
 DB 3 GACCCGCGAGAGGCACA 20

AB210328/c
 ID AB210328 standard; DNA; 20 BP.

AC AB210328;
 XX

DT 16-JAN-2003 (first entry)

DE Haematopoietic cell proliferation disorder related primer SEQ ID NO:468.

XX Human; haematopoietic cell proliferation disorder; cytostatic;
 XX gene therapy; lymphocytic leukaemia; acute myelogenous leukaemia;
 XX cytosine methylation state; probe; primer; ss.

OS Homo sapiens.

OS Synthetic.

PN WO200272722-A2.

PD 03-OCT-2002.

PF 26-MAR-2002; 2002WO-BP003401.

PR 26-MAR-2001; 2001US-0278333P.

PA (EPITG-) EPITGENOMICS AG.

PI Berlin K, Braun A, Distler J, Guetig D, Howe A, Mueller J;

PI Olex A, Piepenbrock C, Adorjan P, Grabs G, Lesche R, Leu B;

PI Lewin A, Lipscher E, Maier S, Model F, Mueller V, Otto T, Pellet C;

PI Schwabe I, Ziebarth H;

DR WPI; 2003-018942/01.

PT Detecting and differentiating between hematopoietic cell proliferative
 disorders, comprises contacting a target nucleic acid with a reagent that
 distinguishes between methylated and non-methylated CpG dinucleotides.

PS Claim 11; Page 36; 117pp; English.

XX The present invention describes a method for detecting and
 CC differentiating between haematopoietic cell proliferative disorders
 CC associated with at least 1 gene and/or their regulatory regions in a
 CC subject. The method comprises contacting a target nucleic acid in a
 CC biological sample obtained from the subject with at least 1 reagent,
 CC which distinguishes between methylated and non-methylated CpG
 CC dinucleotides within the target nucleic acid. AB209861 to AB211118
 CC represent specifically claimed nucleotide sequences from the present
 CC invention. Oligonucleotides from the present invention can be used; for
 CC differentiating between healthy haematopoietic cells and proliferative
 CC disorder haematopoietic cells; for differentiating between acute
 CC lymphocytic leukaemia and acute myelogenous leukaemia; as probes for
 CC determining the cytosine methylation state and/or single nucleotide
 CC polymorphisms (SNPs) of haematopoietic cell proliferation disorder
 CC related sequences and their complements; and as primers for the
 CC amplification of haematopoietic cell proliferation disorder related DNA

CC sequences. The nucleotide sequences from the present invention can also
CC be used for detecting a predisposition to, differentiation between
CC subclasses, diagnosis, prognosis, treatment and/or monitoring of
CC haematopoietic cell proliferative disorders. The present method enables a
CC highly specific classification of haematopoietic cell proliferative
CC disorders allowing for improved and informed treatment of patients

SO Sequence 20 BP; 8 A; 0 C; 11 G; 1 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.:	749	Length:	20
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	10.34%	Indels:	0
DB:	8	Gaps:	0

US-10-031-158-14 (1-58) x AB210328 (1-20)

QY 5 ProProSerProleuphe 10

ID ADB54415/C

DB 18 CCGCCCTCCTCTCTTC 1

ADBS4415; standard; DNA; 20 BP.

ADBS4415;

04-DEC-2003 (first entry)

PCR primer 83 used to amplify genomic DNA region.

colonic cell proliferative disorder; non methylated CpG dinucleotide;

cytostatic; cancer; adenoma; carcinoma; cytosine methylation state; ss;

PCR; primer.

Unidentified.

WO2003072821-A2.

04-SEP-2003.

27-FEB-2003; 2003WO-EP002035.

27-FEB-2002; 2002EP-00004551.

(EPIG-) EPIGENOMICS AG.

Adorjan P, Burger M, Maier S, Nimmrich I, Becker E, Lesche R;

Rujan T, Schmitt A;

WPI; 2003-731620/69.

Detecting and differentiating between colon cell proliferative disorders

associated with a gene or its regulatory regions comprises contacting a

target nucleic acid in a biological sample obtained from the subject with

a reagent.

Claim 15; Page 24; 74pp; English.

The invention relates to a novel method for detecting and differentiating

between colon cell proliferative disorders associated with at least one

gene or its regulatory regions. The method comprises contacting a target

nucleic acid in a biological sample obtained from the subject with at

least one reagent or a series of reagents, where the reagent or series of

reagents, distinguishes between methylated and non methylated CpG

dinucleotides within the target nucleic acid. The molecules of the

invention demonstrate cytosine activity whilst the method may useful

for detecting and differentiating between colon cell proliferative

disorders, including cancers such as colon adenoma and colon carcinoma.

The DNA (peptide nucleic acid)-oligomers are useful as probes for

determining cytosine methylation state or single nucleotide

CC polymorphisms. The current sequence is that of the PCR primer of the

CC invention which was used to amplify the genomic DNA region.

SO Sequence 20 BP; 8 A; 0 C; 11 G; 1 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.:	749	Length:	20
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	10.34%	Indels:	0
DB:	10	Gaps:	0

US-10-031-158-14 (1-58) x ADB54415 (1-20)

QY 5 ProProSerProleuphe 10

ID ADC69900/C

DB 18 CCGCCCTCCTCTCTTC 1

ADC69900; standard; DNA; 20 BP.

ADC69900;

18-DEC-2003 (first entry)

Primer oligo used to amplify pretreated genomic DNA (SeqID 389).

PCR; primer; ss; lung cell proliferative disorder; CpG dinucleotide;

adenocarcinoma; squamous cell carcinoma; cytostatic; probe; PNA-oligomer;

cytosine methylation state.

Unidentified.

WO2003052135-A2.

26-JUN-2003.

10-DEC-2002; 2002WO-EP014026.

14-DEC-2001; 2001DE-01061625.

(EPIG-) EPIGENOMICS AG.

Burger M, Field JK, Genc B, Liloglou T, Lipacher E, Maier S;

Nimmrich I;

WPI; 2003-533029/50.

Detecting and differentiating cytosine methylation state of genomic DNA,

useful for diagnosing, treating prognosticating and/or monitoring lung

cell proliferative disorders e.g. adenocarcinoma and squamous cell

carcinoma.

Claim 11; SEQ ID NO 389; 58pp; English.

This invention relates to a novel method for detecting and

differentiating between lung cell proliferative disorders associated with

at least one gene and/or their regulatory regions. Specifically, it

refers to a method comprising contacting a target nucleic acid in a

biological sample with at least one reagent, wherein the reagent is able

to distinguish between methylated and non-methylated CpG dinucleotides

present in the target DNA. As such, it is possible to further

differentiate and diagnose medical conditions including adenocarcinoma

and squamous cell carcinoma, and their respective adjacent lung tissue.

The present invention describes cytosine oligomers and PNA-oligomers

that are useful as probes for determining the cytosine methylation state

or single nucleotide polymorphisms (SNPs) of the target sequence. This

oligonucleotide sequence is a primer oligomer used for the amplification

of pretreated DNA (i.e. where unmethylated cytosine bases are converted

to uracil), used in an exemplification of the invention.

Sequence 20 BP; 8 A; 0 C; 11 G; 1 T; 0 U; 0 Other;
Alignment Scores:
Pred. No.: 749 Length: 20
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservatve: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
DB: 10 Gaps: 0
US-10-031-158-14 (1-58) x ADC69900 (1-20)

Qy 5 ProProSerProLeuphe 10
Db 18 CCTCCCTCTCCTCTCTC 1

RESULT 12
ADE77580
ID ADE77580 standard; DNA; 20 BP.
XX
AC ADE77580;
XX
DT 29-JAN-2004 (first entry)
XX
DE DRB3*0212 probe designed to analyse the HLA-DRB polymorphic region.
XX
XX HLA-DRB; probe; ss; human; multiplexed elongation assay;
XX enzymatic recognition;
XX cystic fibrosis conductance transmembrane regulator; CFTR;
XX human leukocyte antigen; HLA; genetic testing; carrier screening;
XX genotyping; profiling; polymorphic.
XX
OS Homo sapiens.
XX
PN WO2003034029-A2.
XX
PD 24-APR-2003.
XX
PF 15-OCT-2002; 2002WO-US033012.
XX
PR 15-OCT-2001; 2001US-0329427B.
XX
PR 15-OCT-2001; 2001US-0329428B.
XX
PR 15-OCT-2001; 2001US-0329619P.
XX
PR 15-OCT-2001; 2001US-0329620P.
XX
PR 14-MAR-2002; 2002US-0364416P.
XX
PA (BIOA-) BIOARRAY SOLUTIONS LTD.
XX
PI Li AX, Hashmi G, Seul M;
XX
DR WPI; 2003-393553/37.
XX
PT Concurrent interrogation of a number of polymorphic sites, useful for
PT genetic testing, carrier screening, genetic profiling, and identity
PT testing, comprises conducting a multiplexed elongation assay using
PT probes.
XX
PS Example 2; Page 38; 143pp; English.
XX
CC This invention relates to a novel method for the concurrent interrogation
CC of a number of polymorphic sites in the presence of, and without
CC interference from, non-designated polymorphic sites. Specifically, it
CC comprises conducting a multiplexed elongation assay by applying one or
CC more temperature cycles to achieve linear amplification of the target or
CC a combination of annealing and elongation steps under temperature-
CC controlled conditions. Furthermore, this detection method uses probe
CC extension or elongation and relies on enzymatic recognition, a superior
CC technique that no longer depends on differential hybridisation. The
CC present invention describes probes and methods useful for identifying or
CC detecting polymorphisms at one or more designated sites, such that they
CC can identify mutations within the cystic fibrosis conductance
CC transmembrane regulator (CFTR) or the human leukocyte antigen (HLA)
CC genes. In addition, concurrent interrogation of a multiplicity of

polymorphic sites is useful for genetic testing, carrier screening,
CC genotyping or genetic profiling, and identity testing. This
CC oligonucleotide is a probe designed to analyse the polymorphic region of
CC the HLA-DRB gene of the invention.
XX
SQ Sequence 20 BP; 3 A; 5 C; 4 G; 8 T; 0 U; 0 Other;
Alignment Scores:
Pred. No.: 749 Length: 20
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservatve: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
DB: 10 Gaps: 0
US-10-031-158-14 (1-58) x ADE77580 (1-20)

Qy 12 PhelengInLeuLeuLy 17
Db 1 TTCTTGACGCTGCTTAA 18

RESULT 13
ABZ85409
ID ABZ85409 standard; DNA; 20 BP.
XX
AC ABZ85409;
XX
DT 17-OCT-2003 (first entry)
XX
DE Human oligonucleotide sequence.
XX
XX Human; antisense; lung dysfunction; nasal airway dysfunction;
XX antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
XX antiaesthetic; hypotensive; immunosuppressive; cytostatic; gene therapy;
XX antisense gene therapy; respiratory; lung; adenosine sensitivity;
XX adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
XX lung inflammation; respiratory disease; ds.
XX
OS Homo sapiens.
XX
PN WO200285308-A2.
XX
PD 31-OCT-2002.
XX
PF 23-APR-2002; 2002WO-US013135.
XX
PR 24-APR-2001; 2001US-0286137P.
XX
PA (EPIC-) EPIDEMISIS PHARM INC.
XX
PI Nyce JW, Li Y, Sandrasegura A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX
DR WPI; 2003-229219/22.
XX
PT Pharmaceutical composition for treating ailments associated with impaired
PT respiration, has oligo(s) antisense to specific gene(s) or its
PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
PT ubiquinone.
XX
PS Claim 15; SEQ ID NO 651; 872pp; English.
XX
CC The invention relates to a novel pharmaceutical composition, which has a
CC first active agent comprising an oligonucleotide antisense to the
CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
CC junctions of genes encoding a polypeptide associated with lung and/or
CC nasal airway dysfunction and a second active agent comprising an
CC antiinflammatory steroid and ubiquinone. A composition of the invention
CC has antiinflammatory, antiallergic, antiaesthetic, hypotensive,
CC immunosuppressive, and cytostatic activity. The composition may have a
CC use in antisense gene therapy. The composition is useful for treating or
CC preventing a respiratory, lung or malignant disease or condition, also

CC for enhancing the prophylactic or therapeutic respiratory effect of an
CC antiinflammatory steroid in a subject, for reducing or depleting levels
CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
CC receptor, producing bronchodilation, increasing levels of ubiquinone or
CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
CC lung inflammation, lung allergies, or a respiratory disease or condition.
CC Note: The sequence data for this patent is not represented in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences

XX Sequence 20 BP; 2 A; 13 C; 1 G; 4 T; 0 U; 0 Other;

XX Alignment Scores:

XX Pred. No.: 749 Length: 20
XX Score: 6.00 Matches: 6
XX Percent Similarity: 100.00% Conservative: 0
XX Best Local Similarity: 100.00% Mismatches: 0
XX Query Match: 10.34% Indels: 0
XX DB: 10 Gaps: 0

US-10-031-158-14 (1-58) x ABZ85409 (1-20)

OY 4 PheProPserProleu 9
DB 3 TTCCCTCCAGCCCCCTC 20

RESULT 14

ABD21639
ID ABD21639 standard; DNA; 20 BP.

XX ABD21639;
XX 29-JUL-2004 (first entry)

DE S100 calcium binding protein A2-derived oligo SEQ ID 651.

XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;
XX respiratory tract inflammation; adenosine sensitivity; lung; cancer;
XX surfactant depletion; antiallergic; antiinflammatory; antiasthmatic;
XX analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;
XX beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;
XX respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;
XX emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;
XX pulmonary transplantation rejection; ss; primer.

OS Homo sapiens.

XX WO200285309-A2.

XX 31-OCT-2002.

XX 23-APR-2002; 2002WO-US013143.

XX 24-APR-2001; 2001US-0286036P.

XX (EPIG-) EPIGENESIS PHARM INC.

XX NYce JM, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D,
XX Miller S, Tang L, Shahabuddin S;

XX WPI; 2003-093058/08.

XX Pharmaceutical composition for treating asthma, has antisease
XX oligonucleotide containing less percentage of adenosine, targeted to
XX nucleic acids associated with lung airway or lung dysfunction, and
XX bronchodilating agent.

XX Claim 15; SEQ ID NO 651; 763bp; English.

XX This invention describes a novel composition (a) a first active agent,
XX comprising oligonucleotides, effective for alleviating
XX bronchoconstriction, respiratory tract inflammation, allergies and
XX reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,

CC surfactant depletion or hyposecretion, when administered to a mammal. The
CC oligonucleotides are derived from a gene encoding or regulating
CC expression of a target polypeptide associated with lung airway or lung
CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.
CC The invention also describes a kit, that comprises: (a) a delivery
CC device, in separate containers, (b) the oligonucleotides, (c)
CC instructions for adding a carrier and for use of the kit. The composition
CC of the invention has antiallergic, antiinflammatory, antiasthmatic,
CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
CC beta-adrenergic agonist. The composition is useful for preventing or
CC treating a respiratory, lung or malignant disease. The administered
CC composition comprises oligo and is administered to reduce the production
CC or availability, or to increase the degradation of the target RNA or to
CC reduce the amount of target polypeptide present in the lungs. The
CC pulmonary obstruction, and/or bronchoconstriction and/or lung
CC inflammation, allergies and/or surfactant hypoproduction are associated
CC with a disease or condition such as pulmonary vasoconstriction,
CC inflammation, allergies, asthma, impaired respiration, respiratory
CC distress syndrome, emphysema, chronic obstructive pulmonary disease, pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary
CC transplantation rejection, pulmonary infections, bronchitis or cancer.
CC The reduced adenosine content of the anti-sense oligos corresponding to
CC thymidines present in the target RNA serves to prevent the breakdown of
CC the oligonucleotides into products that free adenosine into the system
CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to
CC prevent any unwanted effects due to it

XX Sequence 20 BP; 2 A; 13 C; 1 G; 4 T; 0 U; 0 Other;

XX Alignment Scores:

XX Pred. No.: 749 Length: 20
XX Score: 6.00 Matches: 6
XX Percent Similarity: 100.00% Conservative: 0
XX Best Local Similarity: 100.00% Mismatches: 0
XX Query Match: 10.34% Indels: 0
XX DB: 11 Gaps: 0

US-10-031-158-14 (1-58) x ABD21639 (1-20)

OY 4 PheProPserProleu 9
DB 3 TTCCCTCCAGCCCCCTC 20

RESULT 15

ADS89854/C
ID ADS89854 standard; DNA; 20 BP.

XX ADS89854;

XX 18-NOV-2004 (first entry)

XX Human PCR primer SEQ ID NO:870.

XX ss; PCR; primer; human; cell proliferative disorder; breast; methylation;
XX cytostatic; gene therapy; single nucleotide polymorphism; SNP.

OS Homo sapiens.

XX WO2004035803-A2.

XX 29-APR-2004.

XX 01-OCT-2003; 2003WO-EP010881.

XX 01-OCT-2002; 2002DE-01045779.

XX 07-JAN-2003; 2003DE-01000096.

XX 17-APR-2003; 2003DE-01017955.

XX (EPIG-) EPIGENOMICS AG.

XX Foekens J, Harbeck N, Koenig T, Maier S, Martens J, Model F,
XX Nimnich I, Rujan T, Schmitt A, Schmitt M, Look MP, Marx A;

DR MPI: 2004-348468/32.

XX Predicting responsiveness of a subject with breast cell proliferative
PT disorder, useful for treating or differentiating breast cell
PT proliferative disorders comprises analyzing methylation pattern of a
PT genomic DNA from the subject.

XX Example 2; SEQ ID NO 870; 104bp; English.

CC The invention relates to a novel method for predicting the responsiveness
CC of a subject with a cell proliferative disorder of the breast tissues to
CC a therapy comprising analysing the methylation pattern of a target
CC nucleic acid by contacting at least one of the target nucleic acids in a
CC biological sample obtained from the subject prior to or during treatment.
CC The method of the invention has cytostatic activity, and may have a use
CC in gene therapy. The set of oligonucleotides comprising at least two of
CC the oligomers are useful for detecting the cytosine methylation state
CC and/or single nucleotide polymorphisms (SNPs) within the sequences. The
CC methods, nucleic acid, oligonucleotide, and kit are useful for the
CC treatment, characterisation, classification and/or differentiation, of
CC breast cell proliferative disorders. The method is also useful for
CC predicting the responsiveness of a subject with a cell proliferative
CC disorder of the breast tissues to a therapy. The present sequence is used
CC in the exemplification of the invention.

XX SQ Sequence 20 BP; 8 A, 0 C; 11 G; 1 T; 0 U; 0 Other;

Alignment Scores:

Pred. No.:	749	Length:	20
Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	10.34%	Indels:	0
DB:	13	Gaps:	0

US-10-031-158-14 (1-58) x ADS69854 (1-20)

QY 5 PROPTOSERPROLEUPHE 10

DB 18 CCTCCCTCTCTCTCTTC 1

Search completed: October 16, 2005, 09:40:49
Job time : 423 secs

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus.p2n model

Run on: October 16, 2005, 07:43:47 / Search time 1775 Seconds
(without alignments)
1583.325 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 58

Sequence: 1 MCMFPSPPLFFLLQLKQSS.....RYIGKKRRATRFWDPRGTP 58

Scoring table: OLIGO
Xgapop 60.0, Xgapext 60.0
Ygapop 60.0, Ygapext 60.0
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 4708233 seqs, 24227607955 residues

Word size: 1

Total number of hits satisfying chosen parameters: 1429811

Minimum DB seq length: 0

Maximum DB seq length: 30

Post-processing: Listing first 45 summaries

Command line parameters:

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-Q=/cgn2.1/USPTO.spool.p/US10031158/runat_14102005_135842_19603/aps_query.fasta.1.199
-DB=GenEmbl -QFMT=fastap -SUFFIX=p2n.olig_sz30.rge -MINMATCH=0.1 -LOOPEXT=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HBAFSCORE=500 -MINLEN=0 -MAXLEN=30
-USER=US10031158 @CCN 1 1 5600 @runat_14102005_135842_19603 -NCPU=6 -ICPU=3
-NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -OSBLOCK=100 -LONGLOG
-BEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -Fgapop=6
-Fgapext=7 -YGAPOP=60 -YGAPEXT=60 -DELop=6 -DELEXT=7

Database :

1: gb_ba.*
2: gb_ncg.*
3: gb_in.*
4: gb_om.*
5: gb_ov.*
6: gb_pat.*
7: gb_ph.*
8: gb_pl.*
9: gb_pr.*
10: gb_ro.*
11: gb_sra.*
12: gb_sv.*
13: gb_un.*
14: gb_vl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	13.8	27	6	AX074409 Sequence
2	13.8	27	6	AX074410 Sequence
3	12.1	23	6	BD263082 Vector. 7
4	12.1	23	6	AX025028 Sequence

5	12.1	25	6	AX771994 Sequence
6	10.3	20	6	CO807420 Sequence
7	10.3	20	6	AR299570 Sequence
8	10.3	20	6	AX599128 Sequence
9	10.3	20	6	AX613466 Sequence
10	10.3	20	6	AX796046 Sequence
11	10.3	20	6	AX825279 Sequence
12	10.3	20	6	AX826219 Sequence
13	10.3	22	6	BD132408 Sequence
14	10.3	23	6	AX395174 Sequence
15	10.3	23	6	AX771993 Sequence
16	10.3	25	6	AX674984 Sequence
17	10.3	26	6	AX717020 Sequence
18	10.3	26	6	AX717041 Sequence
19	10.3	30	6	AR000072 Sequence
20	10.3	30	6	AR064895 Sequence
21	10.3	30	6	AX793255 Sequence
22	10.3	30	9	HUMPLTP26
23	8.6	15	6	E49840
24	8.6	15	6	BD083890
25	8.6	15	6	BD096208
26	8.6	15	6	AR002252
27	8.6	16	6	AR045202
28	8.6	16	6	AR051233
29	8.6	16	6	AR066236
30	8.6	16	6	AR101749
31	8.6	16	6	AR127780
32	8.6	16	6	AR127795
33	8.6	16	6	AR166238
34	8.6	16	6	BD263078
35	8.6	16	6	BD273667
36	8.6	16	6	116027
37	8.6	16	6	128362
38	8.6	16	6	128568
39	8.6	16	6	128569
40	8.6	16	6	158730
41	8.6	16	6	158731
42	8.6	16	6	AX025024
43	8.6	16	6	AX769906
44	8.6	17	6	A88667
45	8.6	17	6	A90634

ALIGNMENTS

RESULT 1
AX074409/c
LOCUS AX074409 27 bp DNA linear PAT 06-FEB-2001
DEFINITION Sequence 7 from Patent WO0104309.
ACCESSION AX074409
VERSION AX074409.1 GI:12710547
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
1 Pastan, I., Essand, M., Lee, B., Vasmatazis, G. and Wolfgang, C.
T-cell receptor _g(g) alternate reading frame protein, (tarp) and
uses thereof
JOURNAL UNITED STATES GOVERNMENT (US)
PATENT: WO 0104309-A 7 18-JAN-2001;
TITLE Location/Qualifiers
FEATURES
source
1..27
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="PCR primer"

ORIGIN

Alignment Scores:
Pred. No.: 3.79 Length: 27
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0
Query Match: 13.79% Indels: 0
DB: 6 Gaps: 0

US-10-031-158-14 (1-58) x AX074409 (1-27)

QY 13 LeuGINLeuLYSGInSerSer 20
DB 26 CTTGATTCCTGAAACAAAGCTCC 3

RESULT 2
AX074410/c 27 bp DNA linear PAT 06-FEB-2001
LOCUS Sequence 8 from Patent WO0104309.
DEFINITION AX074410
ACCESSION AX074410
VERSION AX074410.1 GI:12710548
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Pastan I., Basand M., Lee B., Vasmatazis G. and Wolfgang C.
TITLE T-cell receptor γ (g) alternate reading frame protein, (tarp) and uses thereof
JOURNAL Patent: WO 0104309-A 8 18-JAN-2001;
UNITED STATES GOVERNMENT (US)
FEATURES
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="PCR primer"

ORIGIN
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Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 13.79% Indels: 0
DB: 6 Gaps: 0

US-10-031-158-14 (1-58) x AX074410 (1-27)

QY 23 LeuGIuHIEthRheValPheLeu 30
DB 26 CTGGAACATACCTTTGCTTCTTG 3

RESULT 3
BD263082/c 23 bp DNA linear PAT 17-JUL-2003
LOCUS Vector.
DEFINITION BD263082
ACCESSION BD263082
VERSION BD263082.1 GI:33072850
KEYWORDS JP 2002530115-A/14.
SOURCE Human immunodeficiency virus 1 (HIV-1)
ORGANISM Human immunodeficiency virus 1
Viruses; Retrovirdae; Retroviridae; Lentivirus; Primate
lentivirus group.
1 (bases 1 to 23)
Vector
Patent: JP 2002530115-A 14 17-SEP-2002;
OXFORD BIOMEDICA LTD
COMMENT OS Human immunodeficiency virus type 1
PN JP 2002530115-A/14
PD 17-SEP-2002
PF 19-NOV-1999 JP 2000584089
PR 20-NOV-1998 GB 9825524.3
PI KYRIACOS MITROPHANOUS, MARK UDEN, JONATHAN ROHLT, SUSAN MARY PI
KINGSMAN, JOHN KINGSMAN
PI ALAN KINGSMAN
PC C12N15/09, A61K35/76, A61K48/00, A61P1/04, A61P9/00, A61P11/06, PC

A61P17/00,
PC A61P25/00, A61P25/28, A61P27/02, A61P29/00, A61P31/12, A61P35/00,
PC A61P37/00,
PC C12N5/10, C12N7/00, C12N15/00, C12N5/00
CC Vector
FH Key
FT source
FT 1. .23
FT Location/Qualifiers
1.
FT

FEATURES
source 1. .23
Location/Qualifiers
1.
/organism="Human immunodeficiency virus 1"
/mol_type="genomic DNA"
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ORIGIN
Alignment Scores:
Pred. No.: 38 Length: 23
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 6 Gaps: 0

US-10-031-158-14 (1-58) x BD263082 (1-23)

QY 5 ProProSerProLeuPhePhe 11
DB 22 CCCCACATCCCCCTTTCTTT 2

RESULT 4
AX025028 23 bp DNA linear PAT 15-SEP-2000
LOCUS Sequence 14 from Patent WO00331280.
DEFINITION AX025028
ACCESSION AX025028
VERSION AX025028.1 GI:10184948
KEYWORDS
SOURCE Human immunodeficiency virus 1 (HIV-1)
ORGANISM Human immunodeficiency virus 1
Viruses; Retrovirdae; Retroviridae; Lentivirus; Primate
lentivirus group.
1
REFERENCE 1
AUTHORS Kingsman, S.M., Mitrophanous, K., Uden, M., Rohlt, J. and Kingman, A.J.
TITLE Vector
JOURNAL Patent: WO 00331280-A 14 02-JUN-2000;
KINGSMAN SUSAN MARY (GB); MITROPHANOUS KYRIACOS (GB); UDEN MARK
(GB); ROHLT, JONATHAN (GB); KINGSMAN ALAN JOHN (GB); OXFORD
BIOMEDICA LTD (GB)
FEATURES
source 1. .23
Location/Qualifiers
1.
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/mol_type="unassigned DNA"
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ORIGIN
Alignment Scores:
Pred. No.: 38 Length: 23
Score: 7.00 Matches: 7
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 12.07% Indels: 0
DB: 6 Gaps: 0

US-10-031-158-14 (1-58) x AX025028 (1-23)

QY 5 ProProSerProLeuPhePhe 11
DB 22 CCCCACATCCCCCTTTCTTT 2

RESULT 5
AX771994 25 bp DNA linear PAT 02-JUL-2003
LOCUS Sequence 9 from Patent WO03006065.
DEFINITION

ACCESSION AX771994
VERSION AX771994.1 GI:32438642
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Braun, K., Waldeck, W., Pipkorn, R., Braun, I., and Debus, J.
TITLE PNA conjugate for the treatment of diseases associated with HIV
JOURNAL Patent: WO 0306065-A 9 23-JAN-2003;
Deutsches Krebsforschungszentrum Stiftung des Oeffentlichen Rechts
(DE)
FEATURES
source Location/Qualifiers
1..25
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="PNA 1a"
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Percent Similarity: 100.00% Conservative: 0
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Query Match: 12.07% Indels: 0
Gaps: 0
DB: 6
US-10-031-158-14 (1-58) x AX771994 (1-25)
QY 7 SerProLeuphPhePheLeu 13
DB 4 TCCCCCTTTCTTTTCTT 24
RESULT 6
LOCUS CQ807420 20 bp DNA linear PART 10-MAY-2004
DEFINITION Sequence 870 from Patent WO2004035803.
ACCESSION CQ807420
VERSION CQ807420.1 GI:47112814
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Poekens, J., Harbeck, N., Koenig, T., Maier, S., Martens, J., Model, F., Nimmrich, I., Rujan, T., Schmitt, A., Schmitt, M., Look, M. P. and Marx, A.
TITLE Method and nucleic acids for the improved treatment of breast cell proliferative disorders
JOURNAL Patent: WO 2004035803-A 870 29-APR-2004;
Epigenomics AG (DE)
FEATURES
source Location/Qualifiers
1..20
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Detection primer for SFN"
ORIGIN
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Pred. No.: 389 Length: 20
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
Gaps: 0
US-10-031-158-14 (1-58) x CQ807420 (1-20)
QY 5 ProProSerProLeuphe 10
DB 18 CCTCCCTCTCTCTCTC 1

RESULT 7
LOCUS AR299570 20 bp DNA linear PART 12-JUN-2003
DEFINITION Sequence 11305 from patent US 6537751.
ACCESSION AR299570
VERSION AR299570.1 GI:31686854
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Cohen, D., Chumakov, I., and Blumenfeld, M.
TITLE Biallelic markers for use in constructing a high density disequilibrium map of the human genome
JOURNAL Patent: US 6537751-A 11305 25-MAR-2003;
Location/Qualifiers
1..20
/organism="unknown"
/mol_type="genomic DNA"
ORIGIN
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Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
Gaps: 0
DB: 6
US-10-031-158-14 (1-58) x AR299570 (1-20)
QY 8 ProLeuphPhePheLeu 13
DB 3 CCCCTATTTTCTCTG 20
RESULT 8
LOCUS AX599128 20 bp DNA linear PART 14-FEB-2003
DEFINITION Sequence 468 from Patent W002077272.
ACCESSION AX599128
VERSION AX599128.1 GI:28399270
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Berlin, K., Braun, A., Dischler, J., Guefig, D., Howe, A., Mueller, J., Olek, A., Piepenbrock, C., Adorian, P., Grabs, G., Lesche, R., Leu, B., Lewin, A., Lipcher, E., Maier, S., Model, F., Mueller, V., Otto, T., Pelet, C. and Ziebarth, H.
TITLE Methods and nucleic acids for the analysis of hematopoietic cell proliferative disorders
JOURNAL Patent: WO 02077272-A 468 03-OCT-2002;
Epigenomics AG (DE)
FEATURES
source Location/Qualifiers
1..20
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Detection primer for SFN"
ORIGIN
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Pred. No.: 369 Length: 20
Score: 6.00 Matches: 6
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 10.34% Indels: 0
Gaps: 0
US-10-031-158-14 (1-58) x AX599128 (1-20)

Score:	6.00	Matches:	6
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	10.34%	Indels:	0
DB:	6	Gaps:	0

US-10-031-158-14 (1-58) X AX826219 (1-20)

Qy	5	ProProSerProLeuphe	10
Db	18	CCTCCCTCTCCTCTTC	1

RESULT 13	BD132408/c	22 bp	DNA	linear	PAT 18-SEP-2002
LOCUS	BD132408/c				
DEFINITION	A basal cell carcinoma tumor suppressor gene.				
ACCESSION	BD132408				
VERSION	BD132408.1	GI:23227353			
KEYWORDS	JP 2002504805-A/20.				
SOURCE	synthetic construct				
ORGANISM	synthetic construct				
REFERENCE	other sequences: artificial sequences.				
AUTHORS	1 (bases 1 to 22)				
	Dean, M.F., Hahn, H., Wicking, C., Christiansen, J.,				

ZAPHRONPOPOV, P.G., GALLANI, M.R., SHANLEY, S., CHIDAMBATRAM, A.,
 VOROCHENKO, I., HOLMBERG, B., UDDEN, A.B., GILLIES, S., NEGUS, K.,
 SMYTH, I., PRESSMAN, C., LEFFELL, D.J., GERRARD, B., GOLDBSTEIN, A.,
 MALINWIGHT, B., TOFFIGARD, R., TRENCH, G.C. and BALE, A.B.
 A basal cell carcinoma tumor suppressor gene
 Patent: JP 2002504805-A 20 12-FEB-2002
 THE GOVERNMENT OF THE UNITED STATES OF AMERICA REPRESENTED BY THE
 SECRETARY DEPARTMENT OF HEALTH AND HUMAN SERVICES
 PN JP 2002504805-A/20

PF 16-MAY-1997 JP 1997541164 PO 0011 PR
 PR 17-MAY-1996 US 60/017906,21-MAY-1996 AU
 07-JUN-1996 AU PO 0363,14-JUN-1996 US 60/019765 PI
 MICHAEL, FREDERICK DEAN, HEIDI, HAHN, CAROL WICKING, JEFFREY FI
 CHRISTIANSEN, PI
 PETER G, ZAFIROPOULOS, MAE R GAILANI, SUSAN SHANLEY, ABIRAMI PI
 CHIDAMBARAM, PI
 IGOR VORECHOVSKY, ERIKA HOLMBERG, ANNE BIRGITTE UNDEN, SUSAN PI
 GILLIES, PI
 KYLIE NEGUS, IAN SWYTH, CAROL PRESSMAN, DAVID J LEFFELL, BERNARD
 PI GERARD, PI
 ALISA GOLDSTEIN, BRANDON WAINWRIGHT, RONE TOFTGARD, GEORGIA PI
 CHENEVIX TRENCH, PI
 ALLEN B BALE, PI
 PC C12N5/12, C07K14/47, C12N5/10, C1201/68, G01N33/50, A61K48/00, PC
 A61K39/395, PI
 A61K38/17, PI
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 CC Topology: Linear;
 CC /note= 'PTCF21 primer'
 FH Location/Qualifiers.

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Percent Similarity:	100.00%	Conservative: 0
Best Local Similarity:	100.00%	Mismatch: 0
Query Match:	10.34%	Indels: 0
DB:	6	Gaps: 0

US-10-031-158-14 (1-58) x BD132408 (1-22)

QY 28 ValPheLeuArgAsnPhe 33

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Db      21 GTGTTCTGAGAAATTT 4
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RESULT 14
AX395174

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LOCUS	AX395174	23 bp	DNA	linear	PAT 18-MAY-2002
DEFINITION	Sequence 6 from Patent WO0218579.				
ACCESSION	AX395174				
VERSION	AX395174.1	GI:21066224			

KEYWORDS: synthetic construct
SOURCE: synthetic construct
ORGANISM: other sequences; artificial sequences.
1

REFERENCE	AUTHORS	TITLE	JOURNAL
1	Glucksmann, M.A.	57242, a novel human g protein-coupled receptor family member and uses thereof	Patent: WO 0218579-A 6 07-MAR-2002; Millennium Pharmaceuticals, Inc. (US)

FEATURES	Location/Qualifiers
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	/mol_type="unassigned DNA"
	/db_xref="taxon:32630"
	/note="murine 57242 probe sequence"

ORIGIN	
Alignment Scores:	
Pred. No.:	443
Score:	6.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	10.34%
DB:	6
Gaps:	0
Length:	23
Matches:	6
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

US-10-031-158-14 (1-58) X AX395174 (1-23)

QY	45	ArgArgAlaThrArgPhe	50
Db	4	AGAGGGCCACCCGGTTC	21

RESULT 15				
AX771993				
LOCUS	AX771993	23 bp	DNA	linear
DEFINITION	Sequence 8 from Patent WO03006065.			PAT 02-JUL-2003
ACCESSION	AX771993			
VERSION	AX771993.1	GI:32438641		
KEYWORDS				
SOURCE				
ORGANISM				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
	1			
	Braun, K., Waldeck, W., Pipkorn, R., Braun, I. and Debus, J.			
	PNA conjugate for the treatment of diseases associated with HIV			
	Patent: WO 03006065-A 8 23-JUN-2003;			
	Deutsches Krebsforschungszentrum Stiftung des Oeffentlichen Rechts			
	(DE)			

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FEATURES
    source
        Location/Qualifiers
            1..23
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Alignment Scores:	
Pred. No.:	443
Score:	6.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	10.34%
DB:	6
Length:	2
Matches:	6
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

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Db      21 GTGTTCTGAGAAATTT 4
          |||||
RESULT 14
AX395174

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LOCUS	AX395174	23 bp	DNA	linear	PAT 18-MAY-2002
DEFINITION	Sequence 6 from Patent WO0218579.				
ACCESSION	AX395174				
VERSION	AX395174.1	GI:21066224			

KEYWORDS: synthetic construct
SOURCE: synthetic construct
ORGANISM: other sequences; artificial sequences.
1

REFERENCE	AUTHORS	TITLE	JOURNAL
1	Glucksmann, M.A.	57242, a novel human g protein-coupled receptor family member and uses thereof	Patent: WO 0218579-A 6 07-MAR-2002; Millennium Pharmaceuticals, Inc. (US)

FEATURES	Location/Qualifiers
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	/mol_type="unassigned DNA"
	/db_xref="taxon:32630"
	/note="murine 57242 probe sequence"

ORIGIN	
Alignment Scores:	
Pred. No.:	443
Score:	6.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	10.34%
DB:	6
Gaps:	0
Length:	23
Matches:	6
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

US-10-031-158-14 (1-58) X AX395174 (1-23)

QY	45	ArgArgAlaThrArgPhe	50
Db	4	AGAGGGCCACCCGGTTC	21

RESULT 15				
AX771993				
LOCUS	AX771993	23 bp	DNA	linear
DEFINITION	Sequence 8 from Patent WO03006065.			PAT 02-JUL-2003
ACCESSION	AX771993			
VERSION	AX771993.1	GI:32438641		
KEYWORDS				
SOURCE				
ORGANISM				
REFERENCE				
AUTHORS				
TITLE				
JOURNAL				
	1			
	Braun, K., Waldeck, W., Pipkorn, R., Braun, I. and Debus, J.			
	PNA conjugate for the treatment of diseases associated with HIV			
	Patent: WO 03006065-A 8 23-JUN-2003;			
	Deutsches Krebsforschungszentrum Stiftung des Oeffentlichen Rechts			
	(DE)			

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FEATURES
    source
        Location/Qualifiers
            1..23
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Alignment Scores:	
Pred. No.:	443
Score:	6.00
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Query Match:	10.34%
DB:	6
Length:	2
Matches:	6
Conservative:	0
Mismatches:	0
Indels:	0
Gaps:	0

US-10-031-158-14 (1-58) x AX771993 (1-23)

Oy	7	SerProLeuPhePhePhe	12
Db	1	TCCTCCCTTTCTCTTTT	18

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Job time : 1777 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 16, 2005, 05:59:35 ; Search time 113 Seconds

(without alignments)
213.891 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 58

Sequence: 1 MQMPPSPPLFFFLQLKQSS.....RYGKRRATRFMDPRGTP 58

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

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Word size : 0

Total number of hits satisfying chosen parameters: 230707

Minimum DB seq length: 0

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Post-processing: Listing first 45 summaries

Database : Published Applications AA.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	5	8.6	5	US-09-895-443-30	Sequence 30, Appl
2	5	8.6	7	US-09-833-067-26	Sequence 26, Appl
3	5	8.6	8	US-10-137-867-292	Sequence 292, App
4	5	8.6	9	US-09-765-527-221	Sequence 221, App
5	5	8.6	9	US-09-792-480-18	Sequence 18, Appl
6	5	8.6	9	US-09-870-216C-3	Sequence 3, Appl
7	5	8.6	9	US-10-017-337-3	Sequence 2, Appl
8	5	8.6	9	US-10-144-188-2	Sequence 2, Appl
9	5	8.6	10	US-09-839-329-4	Sequence 4, Appl
10	5	8.6	10	US-09-572-404B-238	Sequence 238, App
11	5	8.6	10	US-09-572-404B-1444	Sequence 1444, Ap

12	5	8.6	10	US-09-572-404B-3212	Sequence 3212, Ap
13	5	8.6	10	US-10-007-761-9	Sequence 9, Appl
14	5	8.6	10	US-10-083-960-18	Sequence 18, Appl
15	5	8.6	10	US-10-209-421-18	Sequence 18, Appl
16	5	8.6	10	US-10-168-789A-26	Sequence 26, Appl
17	5	8.6	10	US-10-168-789A-27	Sequence 27, Appl
18	5	8.6	10	US-10-421-548-7	Sequence 7, Appl
19	5	8.6	10	US-10-421-548-7	Sequence 7, Appl
20	5	8.6	10	US-10-421-548-7	Sequence 7, Appl
21	5	8.6	10	US-10-843-503-65	Sequence 65, Appl
22	5	8.6	10	US-10-936-237-47	Sequence 47, Appl
23	5	8.6	10	US-10-513-003-65	Sequence 65, Appl
24	5	8.6	10	US-09-793-451-717	Sequence 717, App
25	4	6.9	4	US-10-062-109A-701	Sequence 701, App
26	4	6.9	4	US-10-005-480A-701	Sequence 701, App
27	4	6.9	4	US-10-283-722-717	Sequence 717, App
28	4	6.9	4	US-10-291-241-41	Sequence 41, Appl
29	4	6.9	4	US-10-283-903-717	Sequence 717, App
30	4	6.9	4	US-10-133-234A-9	Sequence 9, Appl
31	4	6.9	4	US-10-418-032-253	Sequence 253, App
32	4	6.9	4	US-10-892-402-46	Sequence 36, Appl
33	4	6.9	5	US-09-895-443-24	Sequence 24, Appl
34	4	6.9	5	US-09-895-443-25	Sequence 25, Appl
35	4	6.9	5	US-09-895-443-26	Sequence 26, Appl
36	4	6.9	5	US-09-781-133-20	Sequence 20, Appl
37	4	6.9	5	US-09-781-133-21	Sequence 21, Appl
38	4	6.9	5	US-09-781-133-22	Sequence 22, Appl
39	4	6.9	5	US-10-235-483-29	Sequence 29, Appl
40	4	6.9	5	US-10-299-540-2	Sequence 2, Appl
41	4	6.9	5	US-10-299-184-2	Sequence 2, Appl
42	4	6.9	5	US-10-703-206-3	Sequence 3, Appl
43	4	6.9	5	US-10-808-187-1075	Sequence 1075, Ap
44	4	6.9	5	US-10-497-628-5	Sequence 5, Appl
45	4	6.9	5	US-10-776-224-704	Sequence 204, App
			18	US-10-807-807-1075	Sequence 1075, Ap

ALIGNMENTS

RESULT 1
US-09-895-443-30
; Sequence 30, Application US/09895443
; Patent No. US20020103134A1
GENERAL INFORMATION:
; APPLICANT: Rindeis, M. et al.
; TITLE OF INVENTION: Aggregators of -Amyloid Peptide
; Aggregation Comprising D-Amino Acids
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSER: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1784
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/895,443
FILING DATE: 29-Jun-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/356,931
FILING DATE: <Unknown>
APPLICATION NUMBER: 08/897,342
FILING DATE: 21-Jul-1997
APPLICATION NUMBER: USSN 08/703,675
FILING DATE: 27-Aug-1996
APPLICATION NUMBER: USSN 08/616,081
FILING DATE: 14-Mar-1996

APPLICATION NUMBER: USSN 08/548,998
FILING DATE: 27-OCT-1995
ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Jr., Giulio A.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: PRI-016CP4CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Modified site
LOCATION: 1-5
OTHER INFORMATION: /notes D amino acid
SEQUENCE DESCRIPTION: SEQ ID NO: 30:
US-09-895-443-30

Query Match 8.6%; Score 5; DB 9; Length 5;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 LEFFL 13
Db 1 LEFFL 5

RESULT 2
US-09-833-067-26
Sequence 26, Application US/09833067
Patent No. US20020054888A1
GENERAL INFORMATION:
APPLICANT: O'HANLEY, PETER
APPLICANT: DENICH, KENNETH
TITLE OF INVENTION: DISSOCIATED FILI. THEIR PRODUCTION AND USE
FILE REFERENCE: 050939/0102
CURRENT APPLICATION NUMBER: US/09/833,067
CURRENT FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: 60/196,493
PRIOR FILING DATE: 2000-04-12
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 26
LENGTH: 7
TYPE: PRT
ORGANISM: Unknown Sequence
FEATURE:
OTHER INFORMATION: Description of Unknown Sequence: highly hydrophobic region
US-09-833-067-26

Query Match 8.6%; Score 5; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 PLPFF 12
Db 3 PLPFF 7

RESULT 3
US-10-137-867-292
Sequence 292, Application US/10137867
Publication No. US20030207349A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc

APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C146
CURRENT APPLICATION NUMBER: US/10/137,867
CURRENT FILING DATE: 2002-05-03
PRIOR APPLICATION removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 292
LENGTH: 428
TYPE: PRT
ORGANISM: Homo Sapien
US-10-137-867-292

Query Match 8.6%; Score 5; DB 15; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 LEFFL 13
Db 1 LEFFL 5

RESULT 4
US-09-765-527-221
Sequence 221, Application US/09765527
Patent No. US2002000638A1
GENERAL INFORMATION:
APPLICANT: Bacter, Marc D.
TITLE OF INVENTION: Methode for Recombinant Microbial Production of
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:
ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/765,527
FILING DATE: 18-Jan-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/621,803
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael P.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/33199
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 221:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids

TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: "IMP.382:
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
/note="The C-Terminus is Amidated."
SEQUENCE DESCRIPTION: SEQ ID NO: 221:
US-09-765-527-221

Query Match 8.6%; Score 5; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 LQLLK 17
DB 4 LQLLK 8

RESULT 5
US-09-792-480-18
Sequence 18, Application US/09792480
Patent No. US20020127198A1
GENERAL INFORMATION:

APPLICANT: Rothbard, Jonathan B.
APPLICANT: Wender, Paul A.
APPLICANT: McGrane, P. Leo
APPLICANT: Sista, Lalitha V.S.
APPLICANT: Kirschberg, Thorsten A.
APPLICANT: Cellgate, Inc.
TITLE OF INVENTION: Compositions and Methods for Enhancing Drug Delivery
TITLE OF INVENTION: Actress and Into Epithelial Tissues
FILE REFERENCE: 019801-000230US
CURRENT APPLICATION NUMBER: US/09/792,480
CURRENT FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: US 09/648,400
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: US 60/150,510
PRIOR FILING DATE: 1999-08-24
NUMBER OF SEQ ID NOS: 57
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:A-54
OTHER INFORMATION: Ala-substituted analog of HIV-1 tat protein basic
OTHER INFORMATION: region tat-49-57
NAME/KEY: MOD_RES
LOCATION: (1)
OTHER INFORMATION: Xaa = fluorescein linked to amino group of
OTHER INFORMATION: aminohexanoic acid (Fl-ahx) attached to the
OTHER INFORMATION: N-terminal amino group of Arg
US-09-792-480-18

Query Match 8.6%; Score 5; DB 9; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KGRRA 47
DB 2 KGRRA 6

RESULT 6
US-09-870-216C-3
Sequence 3, Application US/09870216C
Publication No. US20040138135A1

GENERAL INFORMATION:
APPLICANT: Charles A. Nicolette
TITLE OF INVENTION: THERAPEUTIC COMPOUNDS FOR OVARIAN CANCER
FILE REFERENCE: 68126881210100
CURRENT APPLICATION NUMBER: US/09/870,216C
CURRENT FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: 60/209,391
PRIOR FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 60/226,256
PRIOR FILING DATE: 2000-08-17
PRIOR APPLICATION NUMBER: 60/257,008
PRIOR FILING DATE: 2000-12-20
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 9
TYPE: PRT
ORGANISM: Homo sapiens
US-09-870-216C-3

Query Match 8.6%; Score 5; DB 11; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 FLQLL 16
DB 1 FLQLL 5

RESULT 7
US-10-017-327-3
Sequence 3, Application US/10017327
Publication No. US20020155471A1
GENERAL INFORMATION:
APPLICANT: Charles A. Nicolette
TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS AND
TITLE OF INVENTION: METHODS FOR USING SAME
FILE REFERENCE: GZ 2101.20
CURRENT APPLICATION NUMBER: US/10/017,327
CURRENT FILING DATE: 2001-12-06
NUMBER OF SEQ ID NOS: 11
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 9
TYPE: PRT
ORGANISM: Homo sapiens
US-10-017-327-3

Query Match 8.6%; Score 5; DB 13; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 FLQLL 16
DB 1 FLQLL 5

RESULT 8
US-10-144-188-2
Sequence 2, Application US/10144188
Publication No. US20030170212A1
GENERAL INFORMATION:
APPLICANT: Cai, Zeling
APPLICANT: Jackson, Michael R.
APPLICANT: Peterson, Per A.
APPLICANT: Shi, Weixing
APPLICANT: Kong, Yan
APPLICANT: Degraw, Juli
TITLE OF INVENTION: Ex-Vivo Priming For Generating Cytotoxic T Lymphocytes Specific
TITLE OF INVENTION: For No. US20030170212A1-Tumor Antigens To Treat Autoimmune And
FILE REFERENCE: PRI0010 ORI-1627
CURRENT APPLICATION NUMBER: US/10/144,188
CURRENT FILING DATE: 2002-05-13

;; PRIOR APPLICATION NUMBER: 60/291,300
;; PRIOR FILING DATE: 2001-05-15
;; NUMBER OF SEQ ID NOS: 60
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 2
;; LENGTH: 9
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Peptide antigen
US-10-144-188-2

Query Match 8.6%; Score 5; DB 14; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.7e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 PPSPL 9
|||
Db 2 PPSPL 6

RESULT 9
US-09-839-329-4
; Sequence 4, Application US/09839329
; Publication No. US2002022027A1
; GENERAL INFORMATION:
; APPLICANT: Michael P. Sherman
; APPLICANT: Warner C. Greene
; APPLICANT: Carlos M.C. de No. 66640400hna
; APPLICANT: Ulrich Schubert
; APPLICANT: Peter Henklein
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DELIVERY OF
; FILE REFERENCE: A MOLECULE INTO A CELL
; CURRENT APPLICATION NUMBER: US/09/839,329
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/206,610
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/267,827
; PRIOR FILING DATE: 2001-02-09
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Human immunodeficiency virus
US-09-839-329-4

Query Match 8.6%; Score 5; DB 9; Length 10;
Best Local Similarity 100.0%; Pred. No. 7.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 GKRR 46
|||
Db 2 GKRR 6

RESULT 10
US-09-572-404B-238
; Sequence 238, Application US/09572404B
; Publication No. US20030078374A1
; GENERAL INFORMATION:
; APPLICANT: Proteom Ltd
; TITLE OF INVENTION: Complementary peptide ligands from the human genome
; FILE REFERENCE: Human patent
; CURRENT APPLICATION NUMBER: US/09/572,404B
; CURRENT FILING DATE: 2000-05-17
; NUMBER OF SEQ ID NOS: 4203
; SOFTWARE: ProPatent version 1.0
; SEQ ID NO 238
; LENGTH: 10

;; TYPE: PRT
;; ORGANISM: Homo Sapiens
;; FEATURE:
;; OTHER INFORMATION: sequence located in MTRRB at 351-360 and may interact with Sequ
;; OTHER INFORMATION: In this patent.
US-09-572-404B-238

Query Match 8.6%; Score 5; DB 10; Length 10;
Best Local Similarity 100.0%; Pred. No. 7.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 SRRL 24
|||
Db 1 SRRL 5

RESULT 11
US-09-572-404B-1444
; Sequence 1444, Application US/09572404B
; Publication No. US20030078374A1
; GENERAL INFORMATION:
; APPLICANT: Proteom Ltd
; TITLE OF INVENTION: Complementary peptide ligands from the human genome
; FILE REFERENCE: Human patent
; CURRENT APPLICATION NUMBER: US/09/572,404B
; CURRENT FILING DATE: 2000-05-17
; NUMBER OF SEQ ID NOS: 4203
; SOFTWARE: ProPatent version 1.0
; SEQ ID NO 1444
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo Sapiens
; FEATURE:
; OTHER INFORMATION: sequence located in NTRK at 681-690 and may interact with Sequenc
; OTHER INFORMATION: In this patent.
US-09-572-404B-1444

Query Match 8.6%; Score 5; DB 10; Length 10;
Best Local Similarity 100.0%; Pred. No. 7.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 53 PRRG 57
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Db 6 PRRG 10

RESULT 12
US-09-572-404B-3212
; Sequence 3212, Application US/09572404B
; Publication No. US20030078374A1
; GENERAL INFORMATION:
; APPLICANT: Proteom Ltd
; TITLE OF INVENTION: Complementary peptide ligands from the human genome
; FILE REFERENCE: Human patent
; CURRENT APPLICATION NUMBER: US/09/572,404B
; CURRENT FILING DATE: 2000-05-17
; NUMBER OF SEQ ID NOS: 4203
; SOFTWARE: ProPatent version 1.0
; SEQ ID NO 3212
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo Sapiens
; FEATURE:
; OTHER INFORMATION: sequence located in HOXA9 OR HOX1G at 369-378 and may interact w
; OTHER INFORMATION: In this patent.
US-09-572-404B-3212

Query Match 8.6%; Score 5; DB 10; Length 10;
Best Local Similarity 100.0%; Pred. No. 7.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 RRATR 49
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DB 4 RRATR 8

RESULT 13

US-10-007-761-9
Sequence 9, Application US/10007761
Publication No. US20020150984A1
GENERAL INFORMATION:
APPLICANT: Mochly-Rosen, Daria
TITLE OF INVENTION: Peptides for Activation and Inhibition
FILE REFERENCE: 58600-8208, US00
CURRENT FILING DATE: 2001-11-09
PRIOR APPLICATION NUMBER: US 60/262,060
PRIOR FILING DATE: 2001-01-18
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Tat-derived carrier peptide
US-10-007-761-9

Query Match 8.6%; Score 5; DB 13; Length 10;
Best Local Similarity 100.0%; Pred. No. 7.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 GKRR 46
|||||
DB 2 GKRR 6

RESULT 14

US-10-083-960-18
Sequence 18, Application US/10083960
Publication No. US20030022831A1
GENERAL INFORMATION:
APPLICANT: Rothbard, Jonathan B.
APPLICANT: Wender, Paul A.
APPLICANT: McGrane, P. Leo
APPLICANT: Sista, Lalitha V.S.
APPLICANT: Kirschberg, Thorsten A.
TITLE OF INVENTION: Compositions and Methods for Enhancing
FILE REFERENCE: 019801-000240US
CURRENT FILING DATE: 2003-07-14
PRIOR APPLICATION NUMBER: US 60/150,510
PRIOR FILING DATE: 1999-08-24
PRIOR APPLICATION NUMBER: US 09/648,400
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: US 09/792,480
PRIOR FILING DATE: 2001-02-23
NUMBER OF SEQ ID NOS: 86
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 18
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A-54 alanine-substituted analog of Tat-49-57
NAME/KEY: MOD_RES
LOCATION: (1)...(1)
OTHER INFORMATION: Xaa = fluorescein conjugated aminohexanoic acid
US-10-083-960-18

Query Match 8.6%; Score 5; DB 14; Length 10;

Best Local Similarity 100.0%; Pred. No. 7.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KRRR 47
|||||
DB 3 KRRR 7

RESULT 15

US-10-209-421-18
Sequence 18, Application US/10209421
Publication No. US20030083256A1
GENERAL INFORMATION:
APPLICANT: Rothbard, Jonathan B.
APPLICANT: Wender, Paul A.
APPLICANT: McGrane, P. Leo
APPLICANT: Sista, Lalitha V.S.
APPLICANT: Kirschberg, Thorsten A.
TITLE OF INVENTION: Compositions and Methods for Enhancing Drug Delivery
FILE REFERENCE: 019801-000211US
CURRENT FILING DATE: 2002-07-30
PRIOR APPLICATION NUMBER: US 60/150,510
PRIOR FILING DATE: 1999-08-24
PRIOR APPLICATION NUMBER: US 09/648,400
PRIOR FILING DATE: 2000-08-24
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 18
LENGTH: 10
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: A-54
OTHER INFORMATION: Ala-substituted analog of HIV-1 tat protein basic
FEATURE:
NAME/KEY: MOD_RES
LOCATION: (1)
OTHER INFORMATION: Xaa = fluorescein linked to amino group of
US-10-209-421-18

Query Match 8.6%; Score 5; DB 14; Length 10;
Best Local Similarity 100.0%; Pred. No. 7.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KRRR 47
|||||
DB 3 KRRR 7

Search completed: October 16, 2005, 06:11:00
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OM protein - protein search, using sw model

Run on: October 16, 2005, 05:53:10 ; Search time 55 Seconds
(without alignments)
78.721 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 58
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Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 513545 seqs, 74649064 residues

Word size : 0

Total number of hits satisfying chosen parameters: 115750

Minimum DB seq length: 0
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Post-processing: listing first 45 summaries

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4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	5	8.6	5	2	US-08-920-162A-30 Sequence 30, Appl
2	5	8.6	5	3	US-09-356-931-30 Sequence 30, Appl
3	5	8.6	5	4	US-09-895-443A-30 Sequence 30, Appl
4	5	8.6	7	4	US-09-627-851B-47 Sequence 47, Appl
5	5	8.6	9	2	US-08-621-803-221 Sequence 221, Appl
6	5	8.6	9	2	US-08-621-259A-213 Sequence 213, Appl
7	5	8.6	9	3	US-08-159-339A-343 Sequence 343, Appl
8	5	8.6	9	3	US-08-159-339A-405 Sequence 405, Appl
9	5	8.6	9	3	US-09-217-352-221 Sequence 221, Appl
10	5	8.6	9	4	US-09-677-664B-213 Sequence 213, Appl
11	5	8.6	9	4	US-09-792-480-18 Sequence 18, Appl
12	5	8.6	10	2	US-08-248-839C-135 Sequence 135, Appl
13	5	8.6	10	4	US-09-648-400A-18 Sequence 18, Appl
14	5	8.6	10	4	US-09-839-329-4 Sequence 4, Appl
15	5	8.6	10	4	US-10-209-421-18 Sequence 18, Appl
16	5	8.6	10	5	PCT-US96-01735-4 Sequence 4, Appl
17	4	6.9	4	1	US-07-917-034A-3 Sequence 3, Appl
18	4	6.9	4	3	US-09-085-305-29 Sequence 29, Appl
19	4	6.9	4	4	US-09-627-851B-21 Sequence 21, Appl
20	4	6.9	4	4	US-09-627-851B-29 Sequence 29, Appl
21	4	6.9	4	5	PCT-US93-01669-36 Sequence 36, Appl
22	4	6.9	5	1	US-07-690-284A-2 Sequence 2, Appl
23	4	6.9	5	1	US-07-690-284A-5 Sequence 5, Appl
24	4	6.9	5	1	US-08-704-170-91 Sequence 91, Appl
25	4	6.9	5	1	US-08-618-464-2 Sequence 2, Appl
26	4	6.9	5	2	US-08-656-906-28 Sequence 28, Appl
27	4	6.9	5	2	US-08-920-162A-24 Sequence 24, Appl

28	4	6.9	5	2	US-08-920-162A-25 Sequence 25, Appl
29	4	6.9	5	2	US-08-920-162A-26 Sequence 26, Appl
30	4	6.9	5	3	US-08-752-526-13 Sequence 13, Appl
31	4	6.9	5	3	US-09-107-615-2 Sequence 2, Appl
32	4	6.9	5	3	US-09-217-847-28 Sequence 28, Appl
33	4	6.9	5	3	US-09-356-931-24 Sequence 24, Appl
34	4	6.9	5	3	US-09-356-931-25 Sequence 25, Appl
35	4	6.9	5	3	US-09-356-931-25 Sequence 25, Appl
36	4	6.9	5	3	US-08-703-675C-24 Sequence 24, Appl
37	4	6.9	5	3	US-08-703-675C-25 Sequence 25, Appl
38	4	6.9	5	3	US-08-703-675C-26 Sequence 26, Appl
39	4	6.9	5	4	US-08-766-596A-29 Sequence 29, Appl
40	4	6.9	5	4	US-09-895-443A-24 Sequence 24, Appl
41	4	6.9	5	4	US-09-895-443A-25 Sequence 25, Appl
42	4	6.9	5	4	US-09-895-443A-25 Sequence 25, Appl
43	4	6.9	5	4	US-09-895-443A-26 Sequence 26, Appl
44	4	6.9	5	5	US-09-674-973A-204 Sequence 204, Appl
45	4	6.9	5	5	PCT-US94-02631-91 Sequence 91, Appl
					PCT-US95-04896-2 Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-08-920-162A-30
Sequence 30, Application US/08920162A
Patent No. 5985242
GENERAL INFORMATION:
APPLICANT: Findels, M. et al.
TITLE OF INVENTION: Modulators of [SYMBOL 98 \F "Symbol"]-Amino Acid Peptide
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESSES:
ADDRESSER: LAHIVE & COCKFIELD
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/920,162A
FILING DATE: Herewith
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/548,998
FILING DATE: 27-OCT-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/616,081
FILING DATE: 14-MAR-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/703,675
FILING DATE: 27-AUG-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 21-JUL-1997
ATTORNEY/AGENT INFORMATION:
NAME: KARA, Catherine J.
REGISTRATION NUMBER: 41,106
REFERENCE/DOCKET NUMBER: PPI-016CP4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide

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FEATURE:
NAME/KEY: Modified site
LOCATION: 1-5
OTHER INFORMATION: /note= D amino acid
US-08-920-162A-30

Query Match      8.6%; Score 5; DB 2; Length 5;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      9 LFFFL 13
        |||||
Db       1 LFFFL 5

RESULT 2
US-09-356-931-30
Sequence 30, Application US/09356931
Patent No. 6277826
GENERAL INFORMATION:
APPLICANT: Findels, M. et al.
TITLE OF INVENTION: Modulators of -Amyloid Peptide
TITLE OF INVENTION: Aggregation Compising D-Amino Acids
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSES: LAHIVE & COCKFIELD, LLP
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1784
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/356,931
FILING DATE: 19-JUL-1999
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/920,162
FILING DATE: 27-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/897,342
FILING DATE: 21-JUL-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/703,675
FILING DATE: 27-AUG-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/616,081
FILING DATE: 14-MAR-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/548,998
FILING DATE: 27-OCT-1995
ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Jr., Giulio A.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: PPI-016CP4CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 5 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Modified site
LOCATION: 1-5
OTHER INFORMATION: /note= D amino acid
US-09-356-931-30
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Query Match      8.6%; Score 5; DB 3; Length 5;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      9 LFFFL 13
        |||||
Db       1 LFFFL 5

RESULT 3
US-09-895-443A-30
Sequence 30, Application US/09895443A
Patent No. 6689752
GENERAL INFORMATION:
APPLICANT: FINDELS, MARK A.
APPLICANT: GEFTER, MALCOLM L.
APPLICANT: MUSCO, GARY
APPLICANT: SIGNER, EHRAN R.
APPLICANT: WAREFIELD, JAMES
APPLICANT: MOLINAUX, SUSAN
APPLICANT: CHIN, JOSEPH
APPLICANT: LEE, JUNG-JA
APPLICANT: KELLEY, MICHAEL
APPLICANT: KOMAR-PANICUCCI, SONJA
APPLICANT: ARICO-MUENDEL, CHRISTOPHER C.
APPLICANT: PHILLIPS, KATHRYN
APPLICANT: HAYWARD, NEIL J.
TITLE OF INVENTION: MODULATORS OF BETA-AMYLOID PEPTIDE
TITLE OF INVENTION: AGGREGATION COMPRISING D-AMINO ACIDS
FILE REFERENCE: PPI-0016C4C4C2
CURRENT APPLICATION NUMBER: US/09/895,443A
CURRENT FILING DATE: 2001-06-29
PRIOR APPLICATION NUMBER: 09/356931
PRIOR FILING DATE: 1990-07-19
PRIOR APPLICATION NUMBER: 08/920162
PRIOR FILING DATE: 1997-08-27
PRIOR APPLICATION NUMBER: 08/548998
PRIOR FILING DATE: 1995-10-27
PRIOR APPLICATION NUMBER: 08/616081
PRIOR FILING DATE: 1996-03-14
PRIOR APPLICATION NUMBER: 08/703675
PRIOR FILING DATE: 1996-08-27
PRIOR APPLICATION NUMBER: 08/897342
PRIOR FILING DATE: 1997-07-21
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 30
LENGTH: 5
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: peptide
FEATURE:
NAME/KEY: VARIANT
LOCATION: (1)...(5)
OTHER INFORMATION: Modified site, D amino acid
US-09-895-443A-30

Query Match      8.6%; Score 5; DB 4; Length 5;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      9 LFFFL 13
        |||||
Db       1 LFFFL 5

RESULT 4
US-09-627-851B-47
Sequence 47, Application US/09627851B
Patent No. 6545131
GENERAL INFORMATION:
```

APPLICANT: ISSACS, JOHN T.
APPLICANT: DENNEADE, SAMUEL R.
APPLICANT: CHRISTENSEN, S. BROGGER
APPLICANT: LILJA, HANS
TITLE OF INVENTION: TISSUE SPECIFIC PRODRUG
FILE REFERENCE: 5711 (71699)
CURRENT APPLICATION NUMBER: US/09/627,851B
PRIOR FILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: 09/588,822
PRIOR FILING DATE: 2000-06-07
PRIOR APPLICATION NUMBER: 09/081,707
PRIOR FILING DATE: 1998-05-19
PRIOR APPLICATION NUMBER: 60/047,070
PRIOR FILING DATE: 1997-05-19
PRIOR APPLICATION NUMBER: 60/080,046
PRIOR FILING DATE: 1998-03-30
NUMBER OF SEQ ID NOS: 48
SOFTWARE: Patent Ver. 2.1
SEQ ID NO: 47
LENGTH: 7
TYPE: PRT
ORGANISM: Homo sapiens
US-09-627-851B-47

Query Match 8.6%; Score 5; DB 4; Length 7;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 GKRR 46
|||||
Db 2 GKRR 6

RESULT 5
US-08-621-803-221
Sequence 221, Application US/08621803
Patent No. 5851802
GENERAL INFORMATION:
APPLICANT: Better, Marc D.
TITLE OF INVENTION: Methods for Recombinant Microbial Production of
TITLE OF INVENTION: Fusion Proteins and BPI-Derived Peptides
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/621,803
FILING DATE: 22-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/33199
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 221:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature

OTHER INFORMATION: "XMP.382:
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-08-621-803-221

Query Match 8.6%; Score 5; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 LQLK 17
|||||
Db 4 LQLK 8

RESULT 6
US-08-621-259A-213
Sequence 213, Application US/08621259A
Patent No. 5858974
GENERAL INFORMATION:
APPLICANT: Little II, Roger G
APPLICANT: Lim, Edward
APPLICANT: Padem, Mitchell B.
TITLE OF INVENTION: Anti-Fungal Peptides
NUMBER OF SEQUENCES: 252
CORRESPONDENCE ADDRESS:
ADDRESSEE: McAndrews, Held & Malloy, Ltd.
STREET: 500 West Madison Street
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60661

COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/621,259A
FILING DATE: 21-MAR-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/504,841
FILING DATE: 20-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: McNicholas, Janet M.
REGISTRATION NUMBER: 32,918
REFERENCE/DOCKET NUMBER: 11021US02
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/707-8889
TELEFAX: 312/707-9155
TELEX:
INFORMATION FOR SEQ ID NO: 213:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "XMP.382:
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-08-621-259A-213

Query Match 8.6%; Score 5; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 LQ LK 17
DB 4 LQ LK 8

RESULT 7
US-08-159-339A-343

Sequence 343, Application US/08159339A
Patent No. 6037135

GENERAL INFORMATION:

APPLICANT: Kubo, Ralph T.

APPLICANT: Sette, Alessandro

APPLICANT: Celis, Esteban

TITLE OF INVENTION: HLA Binding peptides and Their

NUMBER OF SEQUENCES: 1254

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, Eighth Floor

CITY: San Francisco

STATE: CA

COUNTRY: USA

ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/159,339A

FILING DATE: 29-NOV-1993

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/926,666

FILING DATE: 07-AUG-1992

APPLICATION NUMBER: US 08/027,746

FILING DATE: 05-MAR-1993

APPLICATION NUMBER: US 08/103,396

FILING DATE: 06-AUG-1993

ATTORNEY/AGENT INFORMATION:

NAME: Weber, Ellen Lauver

REGISTRATION NUMBER: 32,762

REFERENCE/DOCKET NUMBER: 018623-005030US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300

INFORMATION FOR SEQ ID NO: 343:

SEQUENCE CHARACTERISTICS:

LENGTH: 9 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-159-339A-343

Query Match

Best Local Similarity 100.0%; Pred. No. 4.1e+05;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 SIMIL 38

DB 1 SIMIL 5

RESULT 8

US-08-159-339A-405

Sequence 405, Application US/08159339A

Patent No. 6037135

GENERAL INFORMATION:

APPLICANT: Kubo, Ralph T.

APPLICANT: Grey, Howard M.

APPLICANT: Sette, Alessandro

APPLICANT: Celis, Esteban

TITLE OF INVENTION: HLA Binding peptides and Their

NUMBER OF SEQUENCES: 1254

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, Eighth Floor

CITY: San Francisco

STATE: CA

COUNTRY: USA

ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/159,339A

FILING DATE: 29-NOV-1993

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/926,666

FILING DATE: 07-AUG-1992

APPLICATION NUMBER: US 08/027,746

FILING DATE: 05-MAR-1993

APPLICATION NUMBER: US 08/103,396

FILING DATE: 06-AUG-1993

ATTORNEY/AGENT INFORMATION:

NAME: Weber, Ellen Lauver

REGISTRATION NUMBER: 32,762

REFERENCE/DOCKET NUMBER: 018623-005030US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300

INFORMATION FOR SEQ ID NO: 405:

SEQUENCE CHARACTERISTICS:

LENGTH: 9 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-159-339A-405

Query Match

Best Local Similarity 100.0%; Pred. No. 4.1e+05;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 SIMIL 38

DB 3 SIMIL 7

RESULT 9

US-09-217-352-221

Sequence 221, Application US/09217352

Patent No. 6274344

GENERAL INFORMATION:

APPLICANT: Beller, Marc D.

TITLE OF INVENTION: Methods for Recombinant Microbial Production of

NUMBER OF SEQUENCES: 265

CORRESPONDENCE ADDRESS:

ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun

STREET: 6300 Sears Tower, 233 South Wacker Drive

CITY: Chicago

STATE: Illinois

COUNTRY: United States of America

ZIP: 60606-6402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/217,352
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/621,803
FILING DATE: 22-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael P.
REGISTRATION NUMBER: 25,447
REFERENCE/DOCKET NUMBER: 27129/33199
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 221:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "XMP.382:
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated."
US-09-217-352-221

Query Match 8.6%; Score 5; DB 3; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 13 LQLK 17
Db 4 LQLK 8

RESULT 10
US-09-677-664B-213
Sequence 213, Application US/09677664B
Patent No. 6664231
GENERAL INFORMATION:
APPLICANT: Little II, Roger G
Ltm, Edward
Fadem, Mitchell B.
TITLE OF INVENTION: Anti-Fungal Peptides
NUMBER OF SEQUENCES: 257
CORRESPONDENCE ADDRESS:
ADDRESSER: McAndrews, Heid & Malloy, Ltd.
STREET: 500 West Madison Street
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60661
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/677,664B
FILING DATE: 07-Mar-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/227,659
FILING DATE: 08-Jan-1999
ATTORNEY/AGENT INFORMATION:
NAME: McNicholas, Janet M.
REGISTRATION NUMBER: 32,918
REFERENCE/DOCKET NUMBER: 11021US06

TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/775-8000
TELEFAX: 312/775-8100
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 213:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: "XMP.382:
FEATURE:
NAME/KEY: Modified-site
LOCATION: C-Terminus
OTHER INFORMATION: /label= Amidation
OTHER INFORMATION: /note= "The C-Terminus is Amidated."
SEQUENCE DESCRIPTION: SEQ ID NO: 213:
US-09-677-664B-213

Query Match 8.6%; Score 5; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 13 LQLK 17
Db 4 LQLK 8

RESULT 11
US-09-792-480-18
Sequence 18, Application US/09792480
Patent No. 6669951
GENERAL INFORMATION:
APPLICANT: Rothbard, Jonathan B.
APPLICANT: Wender, Paul A.
APPLICANT: McGrane, P. Leo
APPLICANT: Siera, Lalitha V.S.
APPLICANT: Kirschberg, Thorsten A.
APPLICANT: Cellgate, Inc.
TITLE OF INVENTION: Compositions and Methods for Enhancing Drug Delivery
TITLE OF INVENTION: Across and into Epithelial Tissues
FILE REFERENCE: 019801-000230US
CURRENT APPLICATION NUMBER: US/09/792,480
CURRENT FILING DATE: 2001-02-23
PRIOR APPLICATION NUMBER: US 09/648,400
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: US 60/150,510
PRIOR FILING DATE: 1999-08-24
NUMBER OF SEQ ID NOS: 57
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 18
LENGTH: 9
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:A-54
OTHER INFORMATION: Ala-substituted analog of HIV-1 tat protein basic
NAME/KEY: MOD RES
LOCATION: (1)
OTHER INFORMATION: Xaa = fluorescein linked to amino group of
OTHER INFORMATION: aminohexanoic acid (Fl-ahx) attached to the
OTHER INFORMATION: N-terminal amino group of Arg
US-09-792-480-18

Query Match 8.6%; Score 5; DB 4; Length 9;
Best Local Similarity 100.0%; Pred. No. 4.1e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 43 KRRRA 47
Db 4 KRRRA 47

Db 2 KKRRA 6

RESULT 12

US-08-248-839C-135
Sequence 135, Application US/0824839C

Patent No. 5843702

GENERAL INFORMATION:

APPLICANT: McConnell, David

APPLICANT: Devine, Kevin

APPLICANT: O'Kane, Charles

TITLE OF INVENTION: A Gene Expression System

NUMBER OF SEQUENCES: 185

CORRESPONDENCE ADDRESS:

ADDRESS: No. 58437020 No. 58437020 of No. 58437020th America, Inc.

STREET: 405 Lexington Avenue

CITY: New York

STATE: New York

COUNTRY: USA

ZIP: 10174-6401

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/248,839C

FILING DATE: 25-MAY-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Gregg, Valera A.

REGISTRATION NUMBER: 35,127

REFERENCE/DOCKET NUMBER: 3614,214-US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-867-0123

TELEFAX: 212-878-9655

INFORMATION FOR SEQ ID NO: 135:

SEQUENCE CHARACTERISTICS:

LENGTH: 10 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: Protein

US-08-248-839C-135

Query Match 8.6%; Score 5; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 SIML 38

Db 3 SIML 7

RESULT 13

US-09-648-400A-18
Sequence 18, Application US/09648400A

Patent No. 6593292

GENERAL INFORMATION:

APPLICANT: Rothbard, Jonathan B.

APPLICANT: Wender, Paul A.

APPLICANT: McGrane, P. Leo

APPLICANT: Sista, Lalitha V.S.

APPLICANT: Kirschberg, Thorsten A.

APPLICANT: Celigate, Inc.

TITLE OF INVENTION: Compositions and Methods for Enhancing Drug Delivery

TITLE OF INVENTION: Acrosses and into Epithelial Tissues

FILE REFERENCE: 019801-000210US

CURRENT APPLICATION NUMBER: US/09/648,400A

CURRENT FILING DATE: 2000-08-24

PRIOR APPLICATION NUMBER: US 60/150,510

PRIOR FILING DATE: 1998-08-24

NUMBER OF SEQ ID NOS: 30

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 18

LENGTH: 10

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: A-54

OTHER INFORMATION: Ala-substituted analog of HIV-1 tat protein basic

OTHER INFORMATION: region Tat-49-57

FEATURE:

NAME/KEY: MOD RES

LOCATION: (1)_RES

OTHER INFORMATION: Xaa = fluorescein linked to amino group of

OTHER INFORMATION: aminohexanoic acid (Fl-ahx)

US-09-648-400A-18

Query Match 8.6%; Score 5; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKRRA 47

Db 3 KKRRA 7

RESULT 14

US-09-839-329-4
Sequence 4, Application US/09839329

Patent No. 6664040

GENERAL INFORMATION:

APPLICANT: Michael P. Sherman

APPLICANT: Warner C. Greene

APPLICANT: Carlos M.C. de No. 6664040chna

APPLICANT: Ulrich Schubert

APPLICANT: Peter Henklein

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DELIVERY OF

TITLE OF INVENTION: A MOLECULE INTO A CELL

FILE REFERENCE: GEC 30448,91-US-02

CURRENT APPLICATION NUMBER: US/09/839,329

CURRENT FILING DATE: 2001-04-20

PRIOR APPLICATION NUMBER: 60/206,610

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/267,827

PRIOR FILING DATE: 2001-02-09

NUMBER OF SEQ ID NOS: 5

SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 4

LENGTH: 10

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Human immunodeficiency virus

US-09-839-329-4

Query Match 8.6%; Score 5; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 GKRR 46

Db 2 GKRR 6

RESULT 15

US-10-209-421-18
Sequence 18, Application US/10209421

Patent No. 6759387

GENERAL INFORMATION:

APPLICANT: Rothbard, Jonathan B.

APPLICANT: Wender, Paul A.

APPLICANT: McGrane, P. Leo

APPLICANT: Sista, Lalitha V.S.

APPLICANT: Kirschberg, Thorsten A.

TITLE OF INVENTION: Compositions and Methods for Enhancing Drug Delivery

TITLE OF INVENTION: Acrosses and into Epithelial Tissues

FILE REFERENCE: 019801-000210US

CURRENT APPLICATION NUMBER: US/10/209,421

CURRENT FILING DATE: 2000-08-24

PRIOR APPLICATION NUMBER: US 60/150,510

PRIOR FILING DATE: 1998-08-24

NUMBER OF SEQ ID NOS: 30

APPLICANT: Cellgate, Inc.
 TITLE OF INVENTION: Compositions and Methods for Enhancing Drug Delivery
 TITLE OF INVENTION: Across and Into Epithelial Tissues
 FILE REFERENCE: 019801-000211US
 CURRENT APPLICATION NUMBER: US/10/209,421
 CURRENT FILING DATE: 2002-07-30
 PRIOR APPLICATION NUMBER: US 60/150,510
 PRIOR FILING DATE: 1999-08-24
 PRIOR APPLICATION NUMBER: US 09/648,400
 PRIOR FILING DATE: 2000-08-24
 NUMBER OF SEQ ID NOS: 51
 SOFTWARE: Patent Ver. 2.1
 SEQ ID NO: 18
 LENGTH: 10
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence:A-54
 OTHER INFORMATION: Ala-substituted analog of HIV-1 tat protein basic
 OTHER INFORMATION: region Tat-49-57
 FEATURE:
 NAME/KEY: MOD_RES
 LOCATION: (1)
 OTHER INFORMATION: Xaa = fluorescein linked to amino group of
 OTHER INFORMATION: aminohexanoic acid (Fl-ahx)
 US-10-209-421-18

Query Match 8.6%; Score 5; DB 4; Length 10;
 Best Local Similarity 100.0%; Pred.No. 1.2e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 43 KGRA 47
 |||||
 Db 3 KGRA 7

Search completed: October 16, 2005, 06:01:38
 Job time : 56 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 16, 2005, 05:45:39 ; Search time 118 Seconds
(without alignments)
251.700 Million cell updates/sec

Title: US-10-031-158-14
 Perfect score: 58

Sequence: 1 MQMPSPPLFFFLQLKKSS.....RYGKRRATFWDPKGT 58

Scoring table: OLIGO Gapop 60.0 , Gapext 60.0

Searched: 1612378 seqs, 512079187 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2548

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Minimum DB seq length: 0
Maximum DB seq length: 10
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Post-processing: Listing first 45 summaries

Database : UniProt_03:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result	No.	Score	Query Match	Length	DB	ID	Description
1	4	6.9	4	1	FLRN	ANTEL	P58707 anthopleura
2	4	6.9	7	2	P92210		P92210 agropyron c
3	4	6.9	7	2	P92214		P92214 amblyopyrum
4	4	6.9	7	2	P92218		P92218 austrocalopyrum
5	4	6.9	7	2	P92221		P92221 bromus inez
6	4	6.9	7	2	P92226		P92226 critheopsis
7	4	6.9	7	2	P92372		P92372 haynaldia v
8	4	6.9	7	2	P92381		P92381 hordeum bra
9	4	6.9	7	2	P92385		P92385 hordeum mar
10	4	6.9	7	2	P92387		P92387 henardia p
11	4	6.9	7	2	P92390		P92390 heteranthell
12	4	6.9	7	2	P92393		P92393 hordeum vul
13	4	6.9	7	2	P92403		P92403 lophopyrum
14	4	6.9	7	2	P92421		P92421 psathyrostra
15	4	6.9	7	2	P92425		P92425 pseudoroegn
16	4	6.9	7	2	P92427		P92427 peridictyon
17	4	6.9	7	2	P92430		P92430 aegilops ta
18	4	6.9	7	2	P92440		P92440 thimopyrum
19	4	6.9	7	2	P92442		P92442 caenlatherum
20	4	6.9	8	2	O15895		O15895 babesia bov
21	4	6.9	9	2	O88889		O88889 mus musculu
22	4	6.9	10	1	PARP	LOOMI	P38553 locusta mig
23	4	6.9	10	1	LCMS	LEBMA	P21144 leucophaea
24	4	6.9	10	1	NEMS	SARBU	P61850 sarcophaga
25	4	6.9	10	2	O6a370		O6a370 euryhalmyc
26	4	6.9	10	2	O76ML8		O76ML8 eurphyarum
27	3	5.2	4	1	FLRF	HIRME	P42561 hirudo med
28	3	5.2	5	1	PARP	ARTTR	P41853 artiposith
29	3	5.2	5	1	PAP2	PAPMA	P81864 paracithrus
30	3	5.2	7	1	FARI	HELTI	P41871 hellisoma tr
31	3	5.2	7	1	FARI	MACRS	P83274 macrobrachiu

32	3	5.2	7	1	PARI_PROCL	P384499	procambriatus
33	3	5.2	7	1	PAR2_PROCL	P384498	procambriatus
34	3	5.2	7	2	O9Y109	O9Y493	human adenovirus
35	3	5.2	7	2	O9Y109	O9Y109	human adenovirus
36	3	5.2	7	2	O9YVE3	O9YVE3	human adenovirus
37	3	5.2	8	1	AKHG_GRYBI	P67785	grivillus bimb
38	3	5.2	8	1	AKH_ROMTI	P67786	romlelea mid
39	3	5.2	8	1	CADI_ENTRA	P13268	enterococcus
40	3	5.2	8	1	PARI_PANNE	P41872	panagrellus
41	3	5.2	8	1	PARI_PENNO	P83316	penaeus mon
42	3	5.2	8	1	PAR2_MACCS	P83275	macrobrachi
43	3	5.2	8	1	PAR3_HOMAM	P41466	homarus ame
44	3	5.2	8	1	PAR4_HOMAM	P41467	homarus ame
45	3	5.2	8	1	HTF1_PERAM	P04548	periplaneta

ALIGNMENTS

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RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
RA Petersen G., Seberg O.;
RT "Phylogenetic analysis of the Trilicaceae (Poaceae) based on rpoA
sequence data.";
RL Mol. Phylogenet. Evol. 7:217-230(1997).
DR EMBL; 277771; CAB01391.1; -.
DR GO; GO:0009507; C:chloroplast; IEA.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Chloroplast; Ribosomal protein.
FT NON TER 1
SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match
Best Local Similarity 100.0%; Score 4; DB 2; Length 7;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKRR 46
DB 3 KKRR 6

RESULT 3
P92214 PRELIMINARY; PRT; 7 AA.
ID P92214;
AC P92214;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Ribosomal protein 11 (Fragment).
GN Name=trp11;
OS Amblyopyrum multicum.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
OC Trilicaceae; Amblyopyrum.
OX NCBI_TaxID=4595;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=leaves;
RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
RA Petersen G., Seberg O.;
RT "Phylogenetic analysis of the Trilicaceae (Poaceae) based on rpoA
sequence data.";
RL Mol. Phylogenet. Evol. 7:217-230(1997).
DR EMBL; 277756; CAB01346.1; -.
DR GO; GO:0009507; C:chloroplast; IEA.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Chloroplast; Ribosomal protein.
FT NON TER 1
SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match
Best Local Similarity 100.0%; Score 4; DB 2; Length 7;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKRR 46
DB 3 KKRR 6

RESULT 4
P92218 PRELIMINARY; PRT; 7 AA.
ID P92218;
AC P92218;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Ribosomal protein 11 (Fragment).
GN Name=trp11;
OS Austroalopyrum retrofractum.

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OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
OC Trilicaceae; Austroalopyrum.
OX NCBI_TaxID=4597;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=leaves;
RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
RA Petersen G., Seberg O.;
RT "Phylogenetic analysis of the Trilicaceae (Poaceae) based on rpoA
sequence data.";
RL Mol. Phylogenet. Evol. 7:217-230(1997).
DR EMBL; 277767; CAB01379.1; -.
DR GO; GO:0009507; C:chloroplast; IEA.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Chloroplast; Ribosomal protein.
FT NON TER 1
SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match
Best Local Similarity 100.0%; Score 4; DB 2; Length 7;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKRR 46
DB 3 KKRR 6

RESULT 5
P92221 PRELIMINARY; PRT; 7 AA.
ID P92221;
AC P92221;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Ribosomal protein 11 (Fragment).
GN Name=trp11;
OS Bromus inermis (Smooth brome grass).
OC Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
OC Bromae; Bromus.
OX NCBI_TaxID=15371;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=leaves;
RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
RA Petersen G., Seberg O.;
RT "Phylogenetic analysis of the Trilicaceae (Poaceae) based on rpoA
sequence data.";
RL Mol. Phylogenet. Evol. 7:217-230(1997).
DR EMBL; 277759; CAB01355.1; -.
DR GO; GO:0009507; C:chloroplast; IEA.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Chloroplast; Ribosomal protein.
FT NON TER 1
SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match
Best Local Similarity 100.0%; Score 4; DB 2; Length 7;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKRR 46
DB 3 KKRR 6

RESULT 6
P92226 PRELIMINARY; PRT; 7 AA.
ID P92226;
AC P92226;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)

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DT 01-MAY-1997 (TrEMBLrel. 03, last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, last annotation update)
DE Ribosomal protein 11 (Fragment).
GN Name=rp51;
OS Crithopsis deileana.
OC Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
OC Trilicaceae; Crithopsis.
OX NCBI_TaxId=37674;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=leaves;
RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
RA Petersen G., Seberg O.;
RT "Phylogenetic analysis of the Trilicaceae (Poaceae) based on rpoA
sequence data.";
RL Mol. Phylogenet. Evol. 7:217-230(1997).
DR EMBL; 277751; CAB01331.1; -;
DR GO; GO:0009507; C:chloroplast; IEA.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Chloroplast; Ribosomal protein.
FT NON TER 1
SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match 6.9%; Score 4; DB 2; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 43 KKR 46
Db 3 KKR 6

RESULT 7
P92372 PRELIMINARY; PRT; 7 AA.
ID P92372;
AC P92372;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, last annotation update)
DE Ribosomal protein 11 (Fragment).
GN Name=rp51;
OS Haynaldia villosa.
OC Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
OC Trilicaceae; Haynaldia.
OX NCBI_TaxId=40247;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=leaves;
RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
RA Petersen G., Seberg O.;
RT "Phylogenetic analysis of the Trilicaceae (Poaceae) based on rpoA
sequence data.";
RL Mol. Phylogenet. Evol. 7:217-230(1997).
DR EMBL; 277741; CAB01301.1; -;
DR GO; GO:0009507; C:chloroplast; IEA.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Chloroplast; Ribosomal protein.
FT NON TER 1
SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match 6.9%; Score 4; DB 2; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 43 KKR 46
Db 3 KKR 6

RESULT 8
P92381 PRELIMINARY; PRT; 7 AA.
ID P92381;
AC P92381;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, last annotation update)
DE Ribosomal protein 11 (Fragment).
GN Name=rp51;
OS Hordeum brachyantherum.
OC Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
OC Trilicaceae; Hordeum.
OX NCBI_TaxId=52712;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=leaves;
RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
RA Petersen G., Seberg O.;
RT "Phylogenetic analysis of the Trilicaceae (Poaceae) based on rpoA
sequence data.";
RL Mol. Phylogenet. Evol. 7:217-230(1997).
DR EMBL; 277761; CAB01361.1; -;
DR GO; GO:0009507; C:chloroplast; IEA.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Chloroplast; Ribosomal protein.
FT NON TER 1
SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match 6.9%; Score 4; DB 2; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 43 KKR 46
Db 3 KKR 6

RESULT 9
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ID P92385;
AC P92385;
DT 01-MAY-1997 (TrEMBLrel. 03, Created)
DT 01-MAY-1997 (TrEMBLrel. 03, last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, last annotation update)
DE Ribosomal protein 11 (Fragment).
GN Name=rp51;
OS Hordeum marinum subsp. gussoneanum.
OC Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
OC Trilicaceae; Hordeum.
OX NCBI_TaxId=98114;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=leaves;
RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
RA Petersen G., Seberg O.;
RT "Phylogenetic analysis of the Trilicaceae (Poaceae) based on rpoA
sequence data.";
RL Mol. Phylogenet. Evol. 7:217-230(1997).
DR EMBL; 277763; CAB01367.1; -;
DR GO; GO:0009507; C:chloroplast; IEA.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
KW Chloroplast; Ribosomal protein.
FT NON TER 1
SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match 6.9%; Score 4; DB 2; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.6e+06;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKR 46
 DB 3 KKR 6

RESULT 10

P23387 PRELIMINARY; PRT; 7 AA.
 AC P2387; 01-MAY-1997 (TRENBLrel. 03, Created)
 DT 01-MAY-1997 (TRENBLrel. 03, Last sequence update)
 DE 01-JUN-2003 (TRENBLrel. 24, Last annotation update)
 GN Ribosomal protein 11 (Fragment).
 OS Name=rp11;
 OS Heteranthelium perrisia.
 OC Chloroplastr.
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
 OC Triticeae; Heteranthelium.
 OC NCBI_TaxID=37678;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=leaves;
 RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
 RA Petersen G., Seberg O.;
 RT "Phylogenetic analysis of the Triticeae (Poaceae) based on rpoA
 sequence data."
 RL Mol. Phylogenet. Evol. 7:217-230(1997).
 DR EMBL; Z77748; CAB01322.1; -;
 DR GO; GO:0009507; C:chloroplast; IEA.
 DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
 KM Chloroplast; Ribosomal protein.
 FT NON_TER 1
 SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match 6.9%; Score 4; DB 2; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKR 46
 DB 3 KKR 6

RESULT 11

P23390 PRELIMINARY; PRT; 7 AA.
 AC P2390; 01-MAY-1997 (TRENBLrel. 03, Created)
 DT 01-MAY-1997 (TRENBLrel. 03, Last sequence update)
 DE 01-JUN-2003 (TRENBLrel. 24, Last annotation update)
 GN Ribosomal protein 11 (Fragment).
 OS Name=rp11;
 OS Heteranthelium piliiferum.
 OC Chloroplastr.
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
 OC Triticeae; Heteranthelium.
 OC NCBI_TaxID=37679;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=leaves;
 RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
 RA Petersen G., Seberg O.;
 RT "Phylogenetic analysis of the Triticeae (Poaceae) based on rpoA
 sequence data."
 RL Mol. Phylogenet. Evol. 7:217-230(1997).
 DR EMBL; Z77750; CAB01328.1; -;
 DR GO; GO:0009507; C:chloroplast; IEA.
 DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
 KM Chloroplast; Ribosomal protein.
 FT NON_TER 1
 SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match 6.9%; Score 4; DB 2; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKR 46
 DB 3 KKR 6

RESULT 12

P23393 PRELIMINARY; PRT; 7 AA.
 AC P2393; 01-MAY-1997 (TRENBLrel. 03, Created)
 DT 01-MAY-1997 (TRENBLrel. 03, Last sequence update)
 DE 01-JUN-2003 (TRENBLrel. 24, Last annotation update)
 GN Ribosomal protein 11 (Fragment).
 OS Name=rp11;
 OS Hordeum vulgare (Barley).
 OC Chloroplastr.
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
 OC Triticeae; Hordeum.
 OC NCBI_TaxID=4513;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=leaves;
 RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
 RA Petersen G., Seberg O.;
 RT "Phylogenetic analysis of the Triticeae (Poaceae) based on rpoA
 sequence data."
 RL Mol. Phylogenet. Evol. 7:217-230(1997).
 DR EMBL; Z77764; CAB01370.1; -;
 DR GO; GO:0009507; C:chloroplast; IEA.
 DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
 KM Chloroplast; Ribosomal protein.
 FT NON_TER 1
 SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match 6.9%; Score 4; DB 2; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKR 46
 DB 3 KKR 6

RESULT 13

P2403 PRELIMINARY; PRT; 7 AA.
 AC P2403; 01-MAY-1997 (TRENBLrel. 03, Created)
 DT 01-MAY-1997 (TRENBLrel. 03, Last sequence update)
 DE 01-JUN-2003 (TRENBLrel. 24, Last annotation update)
 GN Ribosomal protein 11 (Fragment).
 OS Name=rp11;
 OS Lophopyrum elongatum (Tall wheatgrass) (Argopyrum elongatum).
 OC Chloroplastr.
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
 OC Triticeae; Lophopyrum.
 OC NCBI_TaxID=4588;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=leaves;
 RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
 RA Petersen G., Seberg O.;
 RT "Phylogenetic analysis of the Triticeae (Poaceae) based on rpoA
 sequence data."
 RL Mol. Phylogenet. Evol. 7:217-230(1997).
 DR EMBL; Z77743; CAB01307.1; -;

DR GO; GO:0009507; Chloroplast; IEA.
 DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
 KW Chloroplast; Ribosomal protein.
 FT NON TER 1
 SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match 6.9%; Score 4; DB 2; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKR 46
 ||||
 Db 3 KKR 6

RESULT 14

P92421 PRELIMINARY; PRT; 7 AA.
 AC P92421; P92419;
 DT 01-MAY-1997 (TrEMBLrel. 03, Created)
 DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
 DE Ribosomal protein 11 (Fragment).
 GN Name=rp811;
 OS Psathyrostachys fragilis.
 OG Chloroplast.
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
 OC Triticeae; Psathyrostachys.
 OX NCBI_TaxID=37729;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=leaves;
 RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;
 RA Petersen G., Seberg O.;
 RT "Phylogenetic analysis of the Triticeae (Poaceae) based on rpoA
 RT sequence data."
 RL Mol. Phylogenet. Evol. 7:217-230(1997).
 DR EMBL; Z77753; CAB01337.1; -
 DR GO; GO:0009507; Chloroplast; IEA.
 DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
 KW Chloroplast; Ribosomal protein.
 FT NON TER 1
 SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match 6.9%; Score 4; DB 2; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKR 46
 ||||
 Db 3 KKR 6

RESULT 15

P92425 PRELIMINARY; PRT; 7 AA.
 AC P92425;
 DT 01-MAY-1997 (TrEMBLrel. 03, Created)
 DT 01-MAY-1997 (TrEMBLrel. 03, Last sequence update)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
 DE Ribosomal protein 11 (Fragment).
 GN Name=rp811;
 OS Pseudoroegneria spicata (Bluebunch wheatgrass) (Agropyron spicatum).
 OG Chloroplast.
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidae;
 OC Triticeae; Pseudoroegneria.
 OX NCBI_TaxID=4604;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=leaves;
 RX MEDLINE=97271648; PubMed=9126564; DOI=10.1006/mpcv.1996.0389;

RA Petersen G., Seberg O.;
 RT "Phylogenetic analysis of the Triticeae (Poaceae) based on rpoA
 RT sequence data."
 RL Mol. Phylogenet. Evol. 7:217-230(1997).
 DR EMBL; Z77744; CAB01310.1; -
 DR GO; GO:0009507; Chloroplast; IEA.
 DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
 KW Chloroplast; Ribosomal protein.
 FT NON TER 1
 SQ SEQUENCE 7 AA; 894 MW; 673414033277700 CRC64;

Query Match 6.9%; Score 4; DB 2; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.6e+06;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 43 KKR 46
 ||||
 Db 3 KKR 6

Search completed: October 16, 2005, 05:59:29
 Job time : 119 secs

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OM protein - protein search, using sw model

Run on: October 16, 2005, 05:51:50 ; Search time 51 Seconds

(without alignments)
109.423 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 58
Sequence: 1 MQMFPSPPLFFFLQLKQSS.....RYIGKKRRATRFMDPRGTP 58

Scoring table: OLIGO
Gapop 60.0 , Gapect 60.0

Searched: 283416 seqs, 96216763 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1102

Minimum DB seq length: 0
Maximum DB seq length: 10

Post-processing: Listing first 45 summaries

Database :
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4	6.9	4	2	A35779
2	4	6.9	8	2	PC4131
3	4	6.9	10	2	A56633
4	4	6.9	10	2	A32543
5	3	5.2	5	2	PT0525
6	3	5.2	5	2	PT0577
7	3	5.2	5	2	PT0700
8	3	5.2	5	2	PT0565
9	3	5.2	6	2	A11490
10	3	5.2	6	2	PT0518
11	3	5.2	7	2	S78024
12	3	5.2	7	2	I48086
13	3	5.2	7	2	A61081
14	3	5.2	8	2	A44960
15	3	5.2	8	2	A61348
16	3	5.2	8	2	S08995
17	3	5.2	8	2	A49823
18	3	5.2	8	2	A28004
19	3	5.2	8	2	A43976
20	3	5.2	8	2	B43976
21	3	5.2	8	2	T10077
22	3	5.2	8	2	S19288
23	3	5.2	8	2	S21288
24	3	5.2	8	2	A05169
25	3	5.2	8	2	JS0315
26	3	5.2	8	2	S71919
27	3	5.2	9	2	A61102
28	3	5.2	9	2	PT0326
29	3	5.2	9	2	S19523

30	3	5.2	9	2	A31576	xylose isomerase (spectrum alpha cha
31	3	5.2	9	2	PC7076	angiotensin I - Ja
32	3	5.2	10	2	A60624	beta-neoendorphin
33	3	5.2	10	2	A60410	hypertrehalosemic
34	3	5.2	10	2	S08997	hypertrehalosemic
35	3	5.2	10	2	A60421	hypertrehalosemic
36	3	5.2	10	2	S08998	hypertrehalosemic
37	3	5.2	10	2	A26381	peptide-N4-(N-acet
38	3	5.2	10	2	UN0440	beta-fructofuranos
39	3	5.2	10	2	PC0753	vitellinogenin, 190k
40	3	5.2	10	2	A61622	Ig heavy chain C r
41	3	5.2	10	2	C39111	enamelin, 22k - bo
42	3	5.2	10	2	S10785	65.4k GTP-binding
43	3	5.2	10	2	S70722	protein OA600021 -
44	3	5.2	10	2	PT0084	peptide-N4-(N-acet
45	3	5.2	10	2	B59272	

ALIGNMENTS

RESULT 1
A35779
neuropeptide Antho-RNamide - sea anemone (Anthopleura elegantissima)
C/Species: Anthopleura elegantissima
C/Date: 04-Dec-1992 #sequence_revision 04-Dec-1992 #text_change 09-Jul-2004
C/Accession: A35779
R/Gitmeilikhizzen, C.U.P., Rinehart, K.L.; Jacob, E.; Graff, D.; Reinscheid, R.K.; Noth
Proc. Natl. Acad. Sci. U.S.A. 87, 5410-5414, 1990
A/Title: Isolation of L-3-phenylacetyl-Len-Aryg-Aen-NH2 (Antho-RNamide), a sea anemone ne
A/Reference number: A35779; PMID:90319122; PMID:1973541
A/Accession: A35779
A/Molecule type: protein
A/Residues: 1-4 <GR1>
A/Cross-references: UNIPROT:P58707
C/Comment: The L-3-phenylacetyl blocking group probably arises from an amino-terminal ph
C/Keywords: amidated carboxyl end; neuropeptide; phenylacetylation
P.1/Modified site: L-3-phenylacetic acid (Phe) #status experimental
F.4/Modified site: amidated carboxyl end (Asn) #status experimental

Query Match 6.9%; Score 4; DB 2; Length 4;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 29 FLRN 32
DB 1 FLRN 4

RESULT 2
PC4131
hypothetical protein 8 [imported] - Pseudomonas aeruginosa (fragment)
C/Species: Pseudomonas aeruginosa
C/Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 09-Jul-2004
C/Accession: PC4131

R/Kawasaki, S.; Arai, H.; Igarashi, Y.; Kodama, T.
Gene 167, 87-91, 1995
A/Title: Sequencing and characterization of the downstream region of the genes encoding
Y for biosynthesis of heme d1.

A/Reference number: J04552; PMID:96144254; PMID:8566817
A/Accession: PC4131
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-8 <RAW>

A/Cross-references: UNIPROT:P95412; DDBJ:D50473; NID:91217594
A/Note: this ORF is not annotated in GenBank entry PSENIRC, release 113.0

Query Match 6.9%; Score 4; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 SRR 23
|||||

Db 5 SRRL 8

RESULT 3
A:Accession: A56633
A:Species: neomyosuppressin - flesh fly (Sarcophaga bullata)
A:Alternate names: Neb-MS
C:Species: Sarcophaga bullata
C:Date: 21-Jul-1995 #sequence_revision 21-Jul-1995 #text_change 09-Jul-2004
C:Accession: A56633
R:Feeney, A.; Schoofs, L.; Proost, P.; Van Damme, J.; Buedts, H.; De Loof, A.
Comp. Biochem. Physiol. C 102, 239-245, 1992
A:Title: Isolation, primary structure and synthesis of neomyosuppressin, a myoinhibiting
A:Reference number: A56633; MUID:93047886; PMID:1358537
A:Accession: A56633
A:Molecule type: protein
A:Residues: 1-10 <RON>
A:Cross-references: UNIPROT:P61850
A:Experimental source: head
A>Note: sequence extracted from NCBI backbone (NCBIP:119072)
A:Keywords: amidated carboxyl end; neuropeptide
F:10/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match
Best Local Similarity 6.9%; Score 4; DB 2; Length 10;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 28 VFLR 31
Db 6 VFLR 9

RESULT 4
A:Accession: A32543
A:Species: cardioexcitatory neuropeptide - desert locust
C:Species: Schistocerca gregaria (desert locust)
C:Date: 20-Dec-1989 #sequence_revision 20-Dec-1989 #text_change 09-Jul-2004
C:Accession: A32543
R:Robb, S.; Packman, L.C.; Evans, P.D.
Biochem. Biophys. Res. Commun. 160, 850-856, 1989
A:Title: Isolation, primary structure and bioactivity of Schistocerca gregaria, a FMRF-amide
A:Reference number: A32543; MUID:89246543; PMID:2719702
A:Accession: A32543
A:Status: preliminary
A:Molecule type: protein
A:Residues: 1-10 <ROB>
A:Cross-references: UNIPROT:P38553
C:Superfamily: unassigned animal peptides
C:Keywords: amidated carboxyl end; neuropeptide
F:10/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match
Best Local Similarity 6.9%; Score 4; DB 2; Length 10;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 28 VFLR 31
Db 6 VFLR 9

RESULT 5
PT0525
T-cell receptor beta chain V-D-J region (100-4J) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C:Accession: PT0525
R:Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A:Reference number: PT0509; MUID:91277601; PMID:1711558
A:Accession: PT0525
A:Status: translation not shown
A:Molecule type: mRNA

A:Residues: 1-5 <FEB>
A:Experimental source: adult thymus, strain BALB/c
C:Keywords: T-cell receptor

Query Match
Best Local Similarity 5.2%; Score 3; DB 2; Length 5;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 55 RGT 57
Db 3 RGT 5

RESULT 6
PT0577
T-cell receptor beta chain V-D-J region (141-1BC) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C:Accession: PT0577; PT0574
R:Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A:Reference number: PT0509; MUID:91277601; PMID:1711558
A:Accession: PT0577
A:Status: translation not shown
A:Molecule type: mRNA
A:Residues: 1-5 <FEB>
A:Experimental source: day 19 fetal thymus, strain BALB/c, clone 141-1BC
A:Accession: PT0574
A:Status: translation not shown
A:Molecule type: mRNA
A:Residues: 1-5 <FEB>
A:Experimental source: day 19 fetal thymus, strain BALB/c, clone 141-10
C:Keywords: T-cell receptor

Query Match
Best Local Similarity 5.2%; Score 3; DB 2; Length 5;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 19 SSR 21
Db 2 SSR 4

RESULT 7
PT0700
T-cell receptor beta chain V-D-J region (161-2A) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C:Accession: PT0700
R:Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
A:Reference number: PT0509; MUID:91277601; PMID:1711558
A:Accession: PT0700
A:Status: translation not shown
A:Molecule type: DNA
A:Residues: 1-5 <FEB>
A:Experimental source: newborn thymus, strain BALB/c
C:Keywords: T-cell receptor

Query Match
Best Local Similarity 5.2%; Score 3; DB 2; Length 5;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 19 SSR 21
Db 2 SSR 4

RESULT 8
PT0565
T-cell receptor beta chain V-D-J region (141-1CF) - mouse (fragment)

C:Species: Mus musculus (house mouse)
 C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 09-Jul-2004
 C:Accession: PT0565
 R:Feeney, A.J.
 J:Exp. Med. 174, 115-124, 1991
 A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
 A:Reference number: PT0509; MUID:91277601; PMID:1711558
 C:Accession: PT0565
 A:Status: translation not shown
 A:Molecule type: mRNA
 A:Residues: 1-5 <FEBS>
 A:Cross-references: UNIPROT:Q8B207
 A:Experimental source: day 19 fetal thymus, strain BALB/c
 C:Keywords: T-cell receptor

Query Match 5.2%; Score 3; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 19 SSR 21
 |||
 DB 2 SSR 4

RESULT 9
 A1490
 pyruvate kinase (EC 2.7.1.40) - pig (fragment)
 C:Species: Sus scrofa domestica (domestic pig)
 C:Date: 05-Jun-1987 #sequence_revision 05-Jun-1987 #text_change 03-Mar-1995
 C:Accession: A11490
 R:Hjeltnes, G.; Andersson, J.; Edlund, B.; Bengtsson, L.
 Biochem. Biophys. Res. Commun. 61, 559-563, 1974
 A:Title: Amino acid sequence of a (32-P)phosphopeptide from pig liver pyruvate kinase ph
 A:Reference number: A11490; MUID:75127438; PMID:4375589
 A:Accession: A11490
 A:Molecule type: protein
 A:Residues: 1-6 <HUB>
 A:Experimental source: liver
 C:Keywords: glycolysis; phosphotransferase

Query Match 5.2%; Score 3; DB 2; Length 6;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 RRA 47
 |||
 DB 2 RRA 4

RESULT 10
 PT0518
 T-cell receptor beta chain V-D-J region (100-4B) - mouse (fragment)
 C:Species: Mus musculus (house mouse)
 C:Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
 C:Accession: PT0518
 R:Feeney, A.J.
 J:Exp. Med. 174, 115-124, 1991
 A:Title: Junctional sequences of fetal T cell receptor beta chains have few N regions.
 A:Reference number: PT0509; MUID:91277601; PMID:1711558
 A:Accession: PT0518
 A:Status: translation not shown
 A:Molecule type: mRNA
 A:Residues: 1-6 <FEBS>
 A:Experimental source: adult thymus, strain BALB/c
 C:Keywords: T-cell receptor

Query Match 5.2%; Score 3; DB 2; Length 6;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 46 RAT 48
 |||
 DB 3 RAT 5

RESULT 11

78024
 ribosomal protein Yml21, mitochondrial - yeast (Saccharomyces cerevisiae) (fragment)
 C:Species: Saccharomyces cerevisiae
 C:Date: 09-Oct-1997 #sequence_revision 24-Oct-1997 #text_change 14-Nov-1997
 C:Accession: 578024
 R:Kitakawa, M.; Grack, H.R.; Grohmann, L.; Goldschmidt-Reisin, S.; Herfurth, B.; Wiltma
 Eur. J. Biochem. 245, 449-456, 1997
 A:Title: Identification and characterization of the genes for mitochondrial ribosomal pr
 A:Reference number: 578018; MUID:97296414; PMID:9151978
 A:Accession: 578024
 A:Molecule type: protein
 A:Residues: 1-7 <KIT>

C:Genetics:
 A:Genome: nuclear
 C:Keywords: mitochondrion; protein biosynthesis; ribosome
 Query Match 5.2%; Score 3; DB 2; Length 7;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 LUK 17
 |||
 DB 5 LUK 7

RESULT 12
 148086
 DNA topoisomerase II alpha - Chinese hamster (fragment)
 C:Species: Cricetus griseus (Chinese hamster)
 C:Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 05-Nov-1999
 C:Accession: 148086
 R:Ng, S.W.; Eder, J.P.; Schnipper, L.B.; Chan, V.T.W.
 J. Biol. Chem. 270, 25850-25858, 1995
 A:Title: Molecular cloning and characterization of the promoter for the Chinese hamster
 A:Reference number: 148086; MUID:96029684; PMID:7592770
 A:Accession: 148086
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-7 <RES>
 A:Cross-references: EMBL:U34196; NID:G1041231; PIDN:AC52315.1; PID:G1041232

Query Match 5.2%; Score 3; DB 2; Length 7;
 Best Local Similarity 100.0%; Pred. No. 2.8e+05;
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 SPL 9
 |||
 DB 4 SPL 6

RESULT 13
 A61081
 tryptophyllin, basic - Rohde's leaf frog
 C:Species: Phyllomedusa rohdei (Rohde's leaf frog)
 C:Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 18-Aug-2000
 C:Accession: A61081
 R:Montecucchi, P.C.; Vincenti, M.; Lazzarini, A.M.; Rusconi, L.; Erspamer, V.
 Int. J. Pept. Protein Res. 33, 391-395, 1989
 A:Title: Isolation, structure determination and synthesis of a novel tryptophan-containin
 A:Reference number: A61081
 A:Accession: A61081
 A:Molecule type: protein
 A:Residues: 1-7 <MON>
 C:Comment: The biological activity of this peptide was not determined.
 C:Superfamily: unassigned animal peptides
 C:Keywords: amidated carboxyl end; hydroxyproline; skin
 F3/Modified site: 4-hydroxyproline (Pro) #status experimental
 F7/Modified site: amidated carboxyl end (Pro) #status experimental
 Query Match 5.2%; Score 3; DB 2; Length 7;

Best Local Similarity 100.0%; Pred. No. 2.8e+05;
Matches 3; Conservative 0; Mismatches 0; Indels 0;

OY 5 PPS 7
|||
Db 2 PPS 4

RESULT 14

A4960
neuropeptide led-CC-I - Colorado potato beetle
C:Species: Lepidoptera decemlineata (Colorado potato beetle)
C:Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 09-Jul-2004
C:Accession: A4960
R:Gaede, G.; Kellner, R.
Peptides 10, 1287-1289, 1989
A:Title: The metabolic neuropeptides of the corpus cardiacum from the potato beetle and
A:Reference number: A4960; PMID:90160053; PMID:2576128
A:Accession: A4960
A:Molecule type: protein
A:Residues: 1-8 <GAB>
A:Cross-references: UNIPROT:P04548
C:Superfamily: adipokinetic hormone
C:Keywords: blocked carboxyl end; corpora cardiaca; hormone; neuropeptide; pyroglutamic
F:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F:8/Modified site: blocked carboxyl end (Trp) (probably amidated) #status experimental

Query Match 5.2%; Score 3; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 32 NFS 34
|||
Db 3 NFS 5

RESULT 15

A61348
red pigment-concentrating hormone - northern shrimp
N:Alternate names: blanching hormone
C:Species: Pandalus borealis (northern shrimp)
C:Date: 02-Aug-1994 #sequence_revision 05-Aug-1994 #text_change 09-Jul-2004
C:Accession: A61348, S07139
R:Fernlund, P.; Josefsson, L.
Science 177, 173-175, 1972
A:Title: Crustacean color-change hormone: amino acid sequence and chemical synthesis.
A:Reference number: A61348; PMID:72228738; PMID:5041363
A:Accession: A61348
A:Molecule type: protein
A:Residues: 1-8 <FER1>
A:Cross-references: UNIPROT:P08939
R:Fernlund, P.
Biochim. Biophys. Acta 371, 304-311, 1974
A:Title: Structure of the red-pigment-concentrating hormone of the shrimp, Pandalus borealis.
A:Reference number: S07139; PMID:75054965; PMID:4433569
A:Accession: S07139
A:Molecule type: protein
A:Residues: 'E', 2-8 <FER2>
A:Note: the amino-terminal residue forms pyrrolidone carboxylic acid; therefore, we have
C:Comment: This neuropeptide, isolated from the eyestalks of the shrimp and active in pig-
mented pigment-containing cells.
C:Superfamily: adipokinetic hormone
C:Keywords: amidated carboxyl end; blocked amino end; hormone; neuropeptide; pyroglutamic
F:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F:8/Modified site: amidated carboxyl end (Trp) #status experimental

Query Match 5.2%; Score 3; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+05;

Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 32 NFS 34
|||
Db 3 NFS 5

Search completed: October 16, 2005, 06:00:31
Job time : 52 secs

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OM protein - protein search, using sw model

Run on: October 16, 2005, 05:44:34 ; Search time 117 Seconds
(without alignments)
191.727 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 58
Sequence: 1 MQMFPSPPLFFFLQLKQSS.....RYGKGRATRFMDPRGTP 58

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 2105692 seqs, 386760381 residues

Word size : 0

Total number of hits satisfying chosen parameters: 465227

Minimum DB seq length: 0
Maximum DB seq length: 10

Post-processing: Listing first 45 summaries

Database : A_Geneseq_16Dec04:*

1: geneeqp1980s:*\n2: geneeqp1990s:*\n3: geneeqp2000s:*\n4: geneeqp2001s:*\n5: geneeqp2002s:*\n6: geneeqp2003as:*\n7: geneeqp2003bs:*\n8: geneeqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6	10.3	9	8	ADH89809 Cell pene
2	5	8.6	5	2	AAW51344 Peptide #
3	5	8.6	5	2	AAW51338 Peptide #
4	5	8.6	5	3	AAy49996 Natural b
5	5	8.6	5	4	AAE12536 AEP70 abe
6	5	8.6	5	4	AAH80747 hK2 cleav
7	5	8.6	5	6	ABG73485 Natural b
8	5	8.6	7	4	AAH80706 Human gla
9	5	8.6	7	4	AAH80669 Human gla
10	5	8.6	7	4	AAH85856 Prostata-
11	5	8.6	7	7	ADH79449 Parapoxvi
12	5	8.6	7	8	ADN08587 Ceramic t
13	5	8.6	7	8	ADP74892 Parapoxvi
14	5	8.6	8	3	AAH06282 prosKI-1
15	5	8.6	9	2	AAH59128 Peptide f
16	5	8.6	9	2	AAH38039 Hepatitis
17	5	8.6	9	2	AAH38106 Hepatitis
18	5	8.6	9	2	AAH44612 Anti-fung
19	5	8.6	9	2	AAH43777 Bacterici
20	5	8.6	9	2	AAH45608 Immunogen
21	5	8.6	9	2	AAH45674 Immunogen
22	5	8.6	9	2	AAH46768 Immunogen
23	5	8.6	9	2	AAH00589 Anti-funga
24	5	8.6	9	4	AAH65513 Anti-fung
25	5	8.6	9	4	AAH00796 HIV-1 Tat

26	5	8.6	9	5	ABH08361 Synthetic
27	5	8.6	9	5	AAO15791 Human imm
28	5	8.6	9	5	ABP54737 HIV-1 tat
29	5	8.6	9	6	AAE35004 Mouse imm
30	5	8.6	9	7	ABH82213 Human ant
31	5	8.6	9	7	ADK65211 Human PTG
32	5	8.6	9	8	ADH97590 Immunogen
33	5	8.6	9	8	ADH89810 Cell pene
34	5	8.6	9	8	ADH44385 INK4a imm
35	5	8.6	9	8	ADH44376 INK4a imm
36	5	8.6	9	8	ADK84035 Human 191
37	5	8.6	9	8	ADK84519 Human 191
38	5	8.6	9	8	ADK85026 Human 191
39	5	8.6	9	8	ADK85074 Human 191
40	5	8.6	9	8	ADK87550 Human 191
41	5	8.6	9	8	ADK88447 Human 191
42	5	8.6	9	8	ADK83950 Human 191
43	5	8.6	9	8	ADK88445 Human 191
44	5	8.6	9	8	ADK84560 Human 191
45	5	8.6	9	8	ADK85620 Human 191

ALIGNMENTS

RESULT 1					
ID	ADH89809	standard; peptide; 9 AA.			
XX	ADH89809;				
AC					
XX					
DT					
XX					
DT	22-APR-2004	(first entry)			
XX					
DE					
XX					
KW	Cell penetrating peptide (CPP) identification method-related peptide 111.				
KW	cell-penetrating peptide; CPP; bulk property value Z-B; Z-E1; Z-E2; Z-E3;				
KW	Z-E4; Z-E5; antidiabetic; neuroprotective; nootropic; antiparkinsonian;				
KW	cardiant; cyostatic; tranquiliser; immunosuppressive; antidepressant;				
KW	anticompulsant; antiinflammatory; analgesic; neuroleptic;				
KW	ophthalmological; antitumor; cell-penetrating; infectious disease;				
KW	diabetes type I; diabetes type II; Alzheimer's disease;				
KW	Parkinson's disease; cancer; prion disease; cardiovascular disease;				
KW	signal transduction.				
OS	Unidentified.				
XX					
PN	WO2003106491-A2.				
XX					
PD	24-DEC-2003.				
XX					
PR	18-JUN-2003; 2003WO-IB003163.				
XX					
PR	18-JUN-2002; 2002SE-00001863.				
XX					
PR	25-JUN-2002; 2002US-0391788P.				
XX					
PA	(CEPE-) CEPEP AB.				
XX					
PI	Haelibrink M, Pooga M, Metsis M, Kogerman P, Valkna A, Melkas A;				
PI	Lindgren M, Graeslund A, Eriksson G, Oestensson CG, Buddina M;				
PI	Zorzo M, Elmquist A, Soomets U, Lundberg P, Järver P, Saar K;				
PI	El-Andalousi S, Kilik K, Langel U;				
XX					
DR	WPI; 2004-090832/09.				
XX					
PT	Predicting, designing, detecting, and/or verifying novel cell-penetrating				
PT	peptide based on assessment of bulk property value of sequences of cell-				
XX	penetrating peptide.				
XX					
PS	Disclosure; Page 31; 148pp; English.				
CC	This invention relates to a novel method of identifying, designing,				
CC	detecting, and/or verifying novel cell-penetrating peptide (CPP) based on				
CC	assessment of bulk property value Z-E of sequences of CPP comprising 5 or				

CC more individual average interval values Z-E1, Z-E2, Z-E3, Z-E4 and Z-E5,
 CC where Z-E1, Z-E2, Z-E3, Z-E4 and Z-E5 are average values of the
 CC respective descriptor values for the residues in the amino acid sequence.
 CC The invention may be useful for the development of compounds with an
 CC antidiabetic, neuroprotective, nootropic, antiparkinsonian, cardiant,
 CC cytostatic, tranquiliser, immunosuppressive, antidepressant,
 CC anticonvulsant, antiinflammatory, analgesic, neuroleptic,
 CC ophthalmological or anticancer activity as a stimulator of cell-
 CC penetration. The method of the invention is useful for identifying a cell
 CC -penetrating peptide or protein and/or a cell-penetrating fragment of a
 CC peptide or protein. In addition, the invention may be useful for checking
 CC cellular penetration properties of a peptide, for producing a cell-
 CC penetrating and functional protein-mimicking peptide and for de novo
 CC design and production of an artificial cell-penetrating and/or and
 CC artificial cell-penetrating and functional protein-mimicking peptide.
 CC Compositions developed within the scope of the present invention may be
 CC useful for treating infectious diseases, diabetes type I, diabetes type
 CC II, Alzheimer's disease, Parkinson's disease, cancer, prion disease,
 CC cardiovascular disease or disorders resulting from perturbed signal
 CC transduction. The method of the invention is fast, efficient and reliable
 CC for identifying, detecting, designing CPPs and for screening cellular
 CC uptake of a broad variety of CPPs in vitro and in vivo. The present
 CC sequence is that of a peptide which is related to the invention.

CC Sequence 9 AA;

Query Match 10.3%; Score 6; DB 8; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 FLOLTK 17
 Db 4 FLOLTK 9

RESULT 2

AAW51344
 ID AAW51344 standard; peptide; 5 AA.

AAW51344;

14-AUG-1998 (first entry)

Peptide #27 useful as modulator of beta-amyloid peptide aggregation.

Natural beta-amyloid peptide; aggregation; D-amino acid;
 Alzheimer's disease; beta-amyloidosis.

Synthetic.

Homo sapiens.

Key Location/Qualifiers

Modified-site 1 /note= "D-form residue, N-terminal acetyl"

Misc-difference 2 /note= "D-form residue"

Misc-difference 3 /note= "D-form residue"

Misc-difference 4 /note= "D-form residue"

Modified-site 5 /note= "D-form residue, C-terminal amide"

WO9808868-A1.

05-MAR-1998.

27-AUG-1997; 97WO-US015166.

27-AUG-1996; 96US-00703675.

21-JUL-1997; 97US-00897342.

(PRAE-) PRAECTIS PHARM INC.

XX Pindels M., Gelfer M., Musso G., Signer ER, Wakefield J;
 PI Moliniaux S, Chin J, Lee J, Kelley M, Komar-Panicucci S;
 PI Arico-Muendel CC, Phillips K, Hayward NJ;
 DR WPL, 1998-216936/19.

PT Peptide compounds which are preferably based on beta-amyloid peptide(s) -
 PT are useful in treatment of disorders related to beta-amyloidosis,
 PT especially Alzheimer's disease.

PS Claim 8; Page 80; 92pp; English.

CC The invention relates to peptides that modulate natural beta-amyloid
 CC peptide aggregation. The modulators of the invention comprise a peptide
 CC preferably based on a beta-amyloid peptide, that is comprised entirely of
 CC D-amino acids. Preferably the peptide comprises 3-5 D-amino acid residues
 CC and includes at least two D-amino acid residues independently selected
 CC from the group consisting of D-leucine, D-phenylalanine and D-valine.
 CC Preferred amino-terminal modifying groups include cyclic, heterocyclic,
 CC polycyclic and branched alkyl groups. Preferred carboxy-terminal
 CC modifying groups include an amide group, an alkyl amide group, an aryl
 CC amide group or a hydroxy group. The peptides may be used to treat
 CC disorders associated with beta-amyloidosis, especially Alzheimer's
 CC disease. They may also be used in methods for detecting the presence of
 CC beta-amyloid peptides in biological samples. The present sequence
 CC represents a specifically claimed peptide

Sequence 5 AA;

Query Match 8.6%; Score 5; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 LPFFL 13
 Db 1 LPFFL 5

RESULT 3

AAW51338
 ID AAW51338 standard; peptide; 5 AA.

AAW51338;

14-AUG-1998 (first entry)

Peptide #21 useful as modulator of beta-amyloid peptide aggregation.

Natural beta-amyloid peptide; aggregation; D-amino acid;
 Alzheimer's disease; beta-amyloidosis.

Synthetic.

Homo sapiens.

Key Location/Qualifiers

Misc-difference 1 /note= "D-form residue"

Misc-difference 2 /note= "D-form residue"

Misc-difference 3 /note= "D-form residue"

Misc-difference 4 /note= "D-form residue"

Modified-site 5 /note= "D-form residue, C-terminal amide"

WO9808868-A1.

05-MAR-1998.

27-AUG-1997; 97WO-US015166.

PR 27-AUG-1996; 96US-00703675.
 PR 21-JUL-1997; 97US-00897342.
 XX
 PA (PRAE-) PRAECIS PHARM INC.
 PI Findex MA, Gefter ML, Musso G, Signer ER, Wakefield J;
 PI Mollineaux S, Chin J, Lee J, Kelley M, Komar-Panicucci S;
 PI Arico-Muendel CC, Phillips K, Hayward NJ;
 XX WPI; 1998-216936/19.
 DR
 PT Peptide compounds which are preferably based on beta-amyloid peptide (s) -
 PT are useful in treatment of disorders related to beta-amyloidosis,
 PT especially Alzheimer's disease.
 PS Claim 8; Page 78; 92pp; English.
 XX
 CC The invention relates to peptides that modulate natural beta-amyloid
 CC peptide aggregation. The modulators of the invention comprise a peptide
 CC preferably based on a beta-amyloid peptide, that is comprised entirely of
 CC D-amino acids. Preferably the peptide comprises 3-5 D-amino acid residues
 CC and includes at least two D-amino acid residues independently selected
 CC from the group consisting of D-leucine, D-phenylalanine and D-valine.
 CC Preferred amino-terminal modifying groups include cyclic, heterocyclic,
 CC polycyclic and branched alkyl groups. Preferred carboxy-terminal
 CC modifying groups include an amide group, an alkyl amide group, an aryl
 CC amide group or a hydroxy group. The peptides may be used to treat
 CC disorders associated with beta-amyloidosis, especially Alzheimer's
 CC disease. They may also be used in methods for detecting the presence of
 CC beta-amyloid peptides in biological samples. The present sequence
 CC represents a specifically claimed peptide
 SQ Sequence 5 AA;
 QY Query Match 8.6%; Score 5; DB 2; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 9 LFFFL 13
 1 LFFFL 5
 RESULT 4
 AAY49996
 ID AAY49996 standard; peptide; 5 AA.
 AC AAY49996;
 XX
 DT 04-FEB-2000 (first entry)
 XX
 DE Natural beta amyloid peptide aggregation modulating compound #3.
 XX
 KM Beta amyloid peptide aggregation; modulation; D-amino acid; diagnosis;
 KM retro-inverso isomer; amyloidogenic disease; Alzheimer's disease;
 KM Down's syndrome; hereditary cerebral haemorrhage; HCHWA-D;
 KM amyloidosis-Dutch-type.
 XX
 OS Synthetic.
 OS Homo sapiens.
 OS
 FH Key Location/Qualifiers
 FT Misc-difference 1.5 /note= "D-form residues"
 FT Modified-site 5 /note= "amidated"
 FT
 PN US5985242-A.
 XX
 PD 16-NOV-1999.
 XX
 PF 27-AUG-1997; 97US-00920162.
 XX

PR 27-OCT-1995; 95US-00548998.
 PR 14-MAR-1996; 96US-00616081.
 PR 27-AUG-1996; 96US-00703675.
 PR 21-JUL-1997; 97US-00897342.
 XX
 PA (PRAE-) PRAECIS PHARM INC.
 PI Wakefield J, Mollineaux S, Signer ER, Kelley M, Komar-Panicucci S;
 PI Musso G, Phillips K, Hayward NJ, Gefter ML, Findex MA, Lee J;
 PI Arico-Muendel CC, Chin J;
 XX WPI; 2000-022266/02.
 DR
 PT Compound comprising a peptidic structure, an amino-terminal modifying
 PT group and a carboxy-terminal modifying group, useful for treating
 PT Alzheimer's disease.
 PS Claim 8; Col 63; 40pp; English.
 XX
 CC The present invention describes a compound of formula A-(Xaa)-B,
 CC comprising a peptidic structure (Xaa), an amino-terminal modifying group
 CC (A), and a carboxy-terminal modifying group (B). AAY49973 to AAY49984
 CC represent specifically claimed examples of (Xaa). Also described is a
 CC method for inhibiting aggregation of natural beta-amyloid peptides and
 CC treating Alzheimer's disease, comprising contacting the amyloid peptides
 CC with A-(Xaa)-B; and a method for detecting the presence of natural beta-
 CC amyloid peptides in a biological sample by contacting with A-(Xaa)-B. The
 CC compound is useful for treating Alzheimer's disease and for detecting the
 CC presence of natural beta-amyloid peptides in a biological sample. The
 CC compound can also be used prophylactically or therapeutically to treat
 CC other clinical occurrences of beta-amyloid deposition, such as in Down's
 CC syndrome individuals and in patients with hereditary cerebral haemorrhage
 CC with amyloidosis-Dutch-type (HCHWA-D). The present sequence represents an
 CC example of the compound from the present invention
 SQ Sequence 5 AA;
 QY Query Match 8.6%; Score 5; DB 3; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 9 LFFFL 13
 1 LFFFL 5
 RESULT 5
 AAB12536
 ID AAB12536 standard; peptide; 5 AA.
 AC AAB12536;
 XX
 DT 03-JAN-2002 (first entry)
 XX
 DE AβP70 abeta peptide (residues 17-21) Inverso isomer mutant (V18F; A21L).
 XX
 KM Beta-amyloid peptide; beta-AP; Abeta peptide; therapy; beta-amyloidosis;
 KM Alzheimer's disease; neuroprotective; beta-amyloid precursor protein;
 KM APP-770; neurotropic; mutant; mutelin.
 XX
 OS Unidentified.
 OS
 FH Key Location/Qualifiers
 FT Misc-difference 1.5 /note= "D-form residues"
 FT Modified-site 1 /note= "Optionally modified with 4-hydroxy benzoyl or
 FT acetyl"
 FT Misc-difference 2 /note= "Wild-type Val substituted with Phe; corresponds
 FT to position 18 of natural Abeta peptide"
 FT Misc-difference 5 /note= "Wild-type Ala substituted with Leu; corresponds
 FT

FT to position 21 of natural Abeta peptide; Optionally C-terminal amide"

XX US6277826-B1.

XX 21-AUG-2001.

XX 19-JUL-1999; 99US-00356931.

XX 27-AUG-1996; 96US-00703675.

XX 27-AUG-1997; 97US-00920162.

XX (PRAE-) PRAECIS PHARM INC.

XX Findele MA, Gelfer ML, Musso G, Signer ER, Wakefield J, Molineux S, Chin J, Lee J, Kelley M, Komar-Panicucci S, Arico-Muendel CC, Phillips K, Hayward NJ;

XX WPI; 2001-637856/73.

XX Modulator compound for treating disorders associated with beta-amyloidosis e.g. Alzheimer's disease, comprises a beta-amyloid peptide containing D-amino acids.

XX Example 11; Col 48; 41pp; English.

XX The patent discloses compounds and pharmaceutical compositions thereof, that can bind to natural beta amyloid peptide (beta-AP; Abeta peptide), modulate the aggregation of natural beta-AP and/or inhibit the cytotoxicity of natural beta-AP. The beta-amyloid modulator compounds of the invention comprise a peptide, preferably based on beta-AP, that is composed entirely of D-amino acids. The modulators of the invention are useful for treating a disorder associated with beta-amyloidosis such as Alzheimer's disease. The present sequence is an invero isomer mutant (V18F; A21I) of Abeta peptide. Beta AP is a cleavage product of beta amyloid precursor protein (APP-770; residues 17-21)

XX Sequence 5 AA;

XX Query Match 8.6%; Score 5; DB 4; Length 5; Best Local Similarity 100.0%; Pred. No. 1.8e+06; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 LFFFL 13

DB 1 LFFFL 5

RESULT 6

XX AAB80747 standard; peptide; 5 AA.

XX AAB80747;

XX 02-MAY-2001 (first entry)

XX DE hK2 cleavage site peptide #38.

XX Cleavage; kallikrein 2; hK2; prodrug.

XX Synthetic.

XX WO200109165-A2.

XX 08-FEB-2001.

XX 28-JUL-2000; 2000WO-US040496.

XX 29-JUL-1999; 99US-0146316P.

XX (UYJO) UNIV JOHNS HOPKINS.

XX Denmeade SR, Isaacs JT, Lilja H, Christensen SB;

XX WPI; 2001-191450/19.

XX New peptides containing cleavage sites specifically cleaved by human kallikrein 2, useful for producing prodrugs which treat hK2-producing cell proliferative disorders without exhibiting non-specific toxicity.

XX Claim 8; Page 30; 38pp; English.

XX The present invention relates to a peptide comprising an amino acid sequence having a cleavage site specific for an enzyme having a proteolytic activity of human kallikrein 2 (hK2), and which is up to 20 amino acids in length. The invention is useful for producing a prodrug which involves linking a drug which contains a primary amine to the peptide, in which the linking of the peptide to the drug inhibits the therapeutic activity of the drug

XX Sequence 5 AA;

XX Query Match 8.6%; Score 5; DB 4; Length 5; Best Local Similarity 100.0%; Pred. No. 1.8e+06; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 GKRR 46

DB 1 GKRR 5

RESULT 7

XX ABG73485 standard; peptide; 5 AA.

XX ABG73485;

XX 10-MAY-2003 (first entry)

XX Natural beta-amyloid peptide modulator compound #28.

XX Natural beta-amyloid peptide; aggregation inhibition; beta-amyloidosis; Alzheimer's disease; beta-amyloid deposition; Down's syndrome; hereditary cerebral haemorrhage with amyloidosis-Dutch-type; HCMA-D; neurological impairment; neuroprotective; nootropic.

XX Synthetic.

XX US2002103134-A1.

XX 01-AUG-2002.

XX 29-JUN-2001; 2001US-00895443.

XX 27-OCT-1995; 95US-00548998.

XX 14-MAR-1996; 96US-00616081.

XX 27-AUG-1996; 96US-00703675.

XX 21-JUL-1997; 97US-00897342.

XX 27-AUG-1997; 97US-00920162.

XX 19-JUL-1999; 99US-00356931.

XX (PRAE-) PRAECIS PHARM INC.

XX Findele MA, Gelfer ML, Musso G, Signer ER, Wakefield J, Molineux S, Chin J, Lee J, Kelley M, Komar-Panicucci S, Arico-Muendel CC, Phillips K, Hayward NJ;

XX WPI; 2003-296609/29.

XX Novel compound that modulate natural beta-amyloid peptide aggregation, is useful for treating amyloidogenic diseases e.g. Alzheimer's disease.

XX Claim 8; Page 36; 42pp; English.

XX The invention relates to a compound that modulates natural beta-amyloid peptide aggregation. The peptide is useful for inhibiting aggregation of

CC natural beta-amyloid peptides and for treating a disorder associated with
 CC beta-amyloidosis, e.g. Alzheimer's disease. The compound is also useful
 CC for detecting the presence or absence of natural beta-amyloid peptides in
 CC a biological sample, by contacting the biological sample with the
 CC compound in vitro, where the compound is labelled with a detectable
 CC substance and detecting the compound bound to natural beta-amyloid
 CC peptides to thus detect the presence or absence of natural beta-amyloid
 CC peptides. The compound is preferably labelled with radioactive technetium
 CC or radioactive iodine and is administered to the subject. The compound is
 CC also useful for prophylactically or therapeutically treating other
 CC clinical occurrences of beta-amyloid deposition such as in Down's
 CC syndrome individuals and in patients with hereditary cerebral haemorrhage
 CC with amyloidosis-Dutch-type (HCHWA-D), and for therapeutically allowing
 CC for the sequestration of beta-amyloid proteins at sites that do not lead
 CC to neurological impairment. This sequence represents a natural beta-
 CC amyloid peptide modulator compound of the invention

XX Sequence 5 AA;

SQ

Query Match 8.6%; Score 5; DB 6; Length 5;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 9 LEFFL 13
 DB 1 LEFFL 5

RESULT 8
 AAB80706 standard; peptide; 7 AA.

XX AAB80706;

DT 02-MAY-2001 (first entry)

XX Human glandular kallikrein 2 substrate peptide #36.

KW Cleavage; kallikrein 2; HK2; prodnrg.

OS Synthetic.

XX WO200109165-A2.

XX 08-FEB-2001.

PF 28-JUL-2000; 2000WO-US040496.

PR 29-JUL-1999; 99US-0146316P.

PA (UYGO) UNIV JOHNS HOPKINS.

PI Demnade SR, Isaacs JT, Lilja H, Christensen SB;

DR WPI; 2001-191450/19.

PT New peptides containing cleavage sites specifically cleaved by human
 PT kallikrein 2, useful for producing prodnrgs which treat HK2-producing
 PT cell proliferative disorders without exhibiting non-specific toxicity.
 XX Example 8; Page 29; 38pp; English.

CC The present invention relates to a peptide comprising an amino acid
 CC sequence having a cleavage site specific for an enzyme having a
 CC proteolytic activity of human kallikrein 2 (HK2), and which is up to 20
 CC amino acids in length. The invention is useful for producing a prodnrg
 CC which involves linking a drug which contains a primary amine to the
 CC peptide, in which the linking of the peptide to the drug inhibits the
 CC therapeutic activity of the drug

XX Sequence 7 AA;

Query Match 8.6%; Score 5; DB 4; Length 7;

Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 42 GKRR 46
 DB 2 GKRR 6

RESULT 9

AAB80669 standard; peptide; 7 AA.

XX AAB80669;

DT 02-MAY-2001 (first entry)

XX Human glandular kallikrein 2 cleavage site peptide #30.

KW Cleavage; kallikrein 2; HK2; prodnrg.

OS Synthetic.

XX WO200109165-A2.

XX 08-FEB-2001.

PF 28-JUL-2000; 2000WO-US040496.

PR 29-JUL-1999; 99US-0146316P.

PA (UYGO) UNIV JOHNS HOPKINS.

PI Demnade SR, Isaacs JT, Lilja H, Christensen SB;

DR WPI; 2001-191450/19.

PT New peptides containing cleavage sites specifically cleaved by human
 PT kallikrein 2, useful for producing prodnrgs which treat HK2-producing
 PT cell proliferative disorders without exhibiting non-specific toxicity.
 XX Disclosure; Page 8; 38pp; English.

CC The present invention relates to a peptide comprising an amino acid
 CC sequence having a cleavage site specific for an enzyme having a
 CC proteolytic activity of human kallikrein 2 (HK2), and which is up to 20
 CC amino acids in length. The invention is useful for producing a prodnrg
 CC which involves linking a drug which contains a primary amine to the
 CC peptide, in which the linking of the peptide to the drug inhibits the
 CC therapeutic activity of the drug

XX Sequence 7 AA;

Query Match 8.6%; Score 5; DB 4; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.8e+06;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 42 GKRR 46
 DB 2 GKRR 6

RESULT 10

AAB85856 standard; peptide; 7 AA.

XX AAB85856;

DT 08-MAY-2002 (first entry)

XX Prostate-specific antigen (PSA)-specific peptide #42.

XX Prostate-specific antigen; PSA; cytostatic; sesquiterpene-gamma-lactone;
 KW cell proliferative disorder; malignant cell; non-malignant cell;

KM prostate cancer; thapsigargin.
XX
OS Synthetic.
XX
PN WO200193861-A1.
XX
PD 13-DEC-2001.
XX
PF 28-JUL-2000; 2000WO-US020542.
XX
PR 07-JUN-2000; 2000US-00588822.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Isaacs JT, Lilja H, Denmeade SR, Christensen SB;
XX
DR WPI; 2002-216722/27.
XX
PT New sesquiterpene-gamma-lactone comprising thapsigargin, is useful for
XX treating cell proliferative disorders.
XX
PS Disclosure; Page 18; 72pp; English.
XX
CC The invention relates to a novel therapeutic sesquiterpene-gamma-lactone
XX comprising thapsigargin, and prostate antigen-specific (PSA) peptides.
XX These are used for treating cell proliferative disorders including
XX malignant as well as non-malignant cell populations, such as in prostate
XX cancer. The derivative can be linked to a variety of carrier moieties,
XX such as the peptides of the invention. The linkage converts the
XX derivative into an inactive prodrug. AA05818-AA05861 represent the PSA-
XX specific peptides of the invention
SQ Sequence 7 AA;

Query Match 8.6%; Score 5; DB 5; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 42 GKKRR 46
| | | | |
| | | | |
Db 2 GKKRR 6

RESULT 11
ADB79449
ID ADB79449 standard; peptide; 7 AA.
XX
AC ADB79449;
XX
DT 04-DEC-2003 (first entry)
XX
DE Parapoxvirus ORF 12r N-terminal peptide.
XX
KM virulence; anti-HIV; hepatotropic; antiinflammatory; cytostatic;
XX vulnerability; antitubercular; antiallergic; dermatological; antidiabetic;
XX immunosuppressive; antineoplastic; antitubercular; thyromimetic;
XX protozoacidal; amebicidal; antibacterial; gene therapy; virus;
XX viral infections; non-viral infections; proliferative disease;
XX inflammatory disease; allergic disease; autoimmune disease.
OS Parapoxvirus.
XX
PN WO2003006654-A2.
XX
PD 23-JAN-2003.
XX
PF 12-JUN-2002; 2002WO-EP006440.
XX
PR 13-JUN-2001; 2001NZ-00512341.
XX
PA (FARB) BAYER AG.
XX
PI Weber O, Friederichs SM, Siegling A, Schlapp T, Mercer AA;

PI Fleming SB;
XX
DR WPI; 2003-221750/21.
XX
PT New polynucleotide and recombinant proteins of Parapoxvirus ovis, useful
XX for manufacturing a medicament for treating virus related disease, viral
XX infections, non-viral infections, proliferative disease or inflammatory
XX disease.
XX
PS Example 4; Page 33; 51pp; English.
XX
CC The invention relates to a novel purified and isolated polynucleotide
XX (N1) of Parapoxvirus ovis (PPVO) comprising a nucleotide sequence (S1,
XX not defined in the specification), or its complementary sequence,
XX fragment or functional variant. A polynucleotide of the invention has
XX virulence, anti-HIV, hepatotropic, antiinflammatory, cytostatic,
XX vulnerability, antitubercular, antiallergic, dermatological, antidiabetic,
XX immunosuppressive, antineoplastic, antitubercular, thyromimetic,
XX protozoacidal, amebicidal, and antibacterial activity. The polynucleotides
XX may have a use in gene therapy. The recombinant proteins encoded by the
XX polynucleotides, or recombinant viruses comprising a Vaccinia virus
XX genome and fragments of a PPVO genome are useful for manufacturing
XX pharmaceutical compositions for treating virus related disease (e.g.
XX hepatitis, papillomatosis, herpes virus infections, liver fibrosis, HIV
XX infections or influenza), viral infections, non-viral infections (e.g.
XX infections with mycobacteria, mycoplasma, amoeba or plasmodia),
XX proliferative disease (e.g. cancer, leukaemia, warts or other skin
XX neoplasms), inflammatory disease (e.g. Crohn's disease, COPD, asthma or
XX conditions related to healing of wounds), allergic disease, and/or
XX autoimmune diseases (systemic lupus erythematosus, Sjogren's disease,
XX Hashimoto's thyroiditis, rheumatoid arthritis or diabetes mellitus). The
XX present sequence is used in the exemplification of the invention.
SQ Sequence 7 AA;

Query Match 8.6%; Score 5; DB 7; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 LQLLK 17
| | | | |
| | | | |
Db 2 LQLLK 6

RESULT 12
ADN08587
ID ADN08587 standard; peptide; 7 AA.
XX
AC ADN08587;
XX
DT 15-JUL-2004 (first entry)
XX
DE Ceramic tea stain binding peptide, SEQ ID No 152.
XX
KM tannin; polyphenolic; anthocyanin; tea; wine; stain; fabric; surface;
XX enzymatic; ceramic; hair; skin; detergent; cleaning; wine ageing;
XX fermentation; reducing; eliminating; astringency; conjugate; bleaching;
XX personal care product; cream; lotion; ointment.
OS Unidentified.
XX
PN WO200403482-A2.
XX
PD 22-APR-2004.
XX
PF 06-OCT-2003; 2003WO-US031776.
XX
PR 08-OCT-2002; 2002US-0417210P.
XX
PA (GENEV) GENENCOR INT INC.
XX
PI Murray CJ, Tijerina P, Van Gastel FUG;

DR WPI; 2004-340885/31.
XX Novel binding peptide binding to tannin, anthocyanin and phenolic
PT compounds, useful for delivering agent to target, and for modifying tea
PT or wine stain on fabric or surface chosen from ceramic, glasses, wood,
PT paper, skin, hair and plastic.
XX Claim 1, SEQ ID NO 152; 38pp; English.
XX
CC The invention relates to a novel peptide which binds to tannin,
CC polyphenolic or anthocyanin compounds. The binding peptide consists
CC essentially of any one of 316 amino acid sequences of 5-13 amino acids in
CC length or has at least 70% identity to one of the 316 amino acid
CC sequences. The binding peptide is useful for delivering an agent to a
CC target, which involves conjugating the binding peptide to an agent to
CC form a binding peptide conjugate and exposing a target to the binding
CC peptide conjugate, where the binding peptide conjugate binds to the
CC target. An enzymatic composition comprising the binding peptide is useful
CC for modifying a tea or wine stain on a fabric or a surface, which
CC involves contacting the surface having tea or wine stain with the
CC enzymatic composition. The surface is preferably a ceramic surface, hair
CC or skin. The binding peptide is useful for producing enzymatic
CC compositions for use in detergent or cleaning compositions such as for
CC removing food stains on fabrics or removing food stains on surfaces such
CC as ceramic and teeth. The binding peptide is useful in the wine ageing
CC process, where a tannin compound is targeted at the early stage of wine
CC fermentation process for reducing or eliminating astringency of tannins
CC in the wine. The binding conjugate, combined with a bleaching agent is
CC useful for delivering a bleaching agent to stained teeth for bleaching.
CC The binding peptide and binding conjugate are useful in personal care
CC products such as creams, lotions and ointments. The binding peptide is
CC useful for modifying astringency in skin. This sequence represents a
CC binding peptide which specifically binds to tea stains on ceramics for
CC use in the stain removal process of the invention.
XX
SQ Sequence 7 AA;
Query Match 8.6%; Score 5; DB 8; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 5 PPSPL 9
DB 1 PPSPL 5
RESULT 13
ADP74892
ID ADP74892 standard; peptide; 7 AA.
XX
AC ADP74892;
XX
DT 23-SEP-2004 (first entry)
XX
DE Parapoxvirus ovis genome ORF-encoding N-terminal peptide #42.
XX
KW Parapoxvirus ovis; PPV; virulence; cytosolic; anti-inflammatory;
KW immunosuppressive; anti-allergic; gene therapy; viral infection;
KW non-viral infection; proliferative disease; inflammatory disease;
KW allergic disease; autoimmune disease; open reading frame; ORF.
XX
OS Parapoxvirus.
XX
EN WO2004054614-A1.
XX
PD 01-JUL-2004.
XX
PF 17-DEC-2002; 2002MO-EP014402.
XX
PR 17-DEC-2002; 2002MO-EP014402.
XX
PA (FARB) BAYER HEALTHCARE AG.
XX

PI Weber O, Friederichs SM, Stiegling A, Schiapp T, Mercer AA;
PI Fleming SB;
XX
DR WPI; 2004-488011/46.
XX
PT New polynucleotide coding for a parapoxvirus ovis (PPVO) genome, useful
PT for preparing a composition for treating viral or non-viral infections,
PT or proliferative, inflammatory, allergic or autoimmune diseases.
XX
PS Example 4, Page 33; 103pp; English.
XX
XX This invention relates to a novel purified and isolated polynucleotide
CC which comprises a sequence having 137560 bp derived from the Parapoxvirus
CC ovis (PPVO) and the open reading frames (ORFs) contained within it. The
CC invention may be useful for the production of compounds with a virulence,
CC cytosolic, anti-inflammatory, immunosuppressive or anti-allergic activity
CC whilst the disclosed sequences may be useful for gene therapy. The
CC invention is useful for preparing a composition for treating viral or non
CC -viral infections, or proliferative, inflammatory, allergic or autoimmune
CC diseases. The present sequence is that of a peptide which represents the
CC N-terminal of a protein encoded by an ORF of the Parapoxvirus genome
CC sequence of the invention.
XX
SQ Sequence 7 AA;
Query Match 8.6%; Score 5; DB 8; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 13 LQLLK 17
DB 2 LQLLK 6
RESULT 14
AAB06282
ID AAB06282 standard; peptide; 8 AA.
XX
AC AAB06282;
XX
DT 03-OCT-2000 (first entry)
XX
DE proSKI-1 putative zymogen cleavage site.
XX
KW Human, pro-brain-derived neurotrophic factor; PROBDNF;
KW subtilisin-kexin isoenzyme 1; SKI-1; proSKI-1 zymogen processing;
KW antihypertensive; cytosolic; vasotropic; SKI-1 inhibitor;
KW hypercholesterolemia; liver steatosis; Ras-dependent cancer; restenosis;
KW amyloid protein formation.
XX
OS Homo sapiens.
XX
OS Mus sp.
XX
OS Rattus sp.
XX
FH Key Location/Qualifiers
FT Cleavage-site 4..5
XX
EN WO200026348-A2.
XX
PD 11-MAY-2000.
XX
PF 04-NOV-1999; 99WO-CA001058.
XX
PR 04-NOV-1998; 98CA-02249648.
XX
PA (RECL-) INST RECH CLINIQUES MONTREAL.
XX
PI Seldah N, Chretien M, Marcinkiewicz M, Laakonen R, Davignon J;
XX
DR WPI; 2000-365601/31.
XX
PT Novel soluble proteic fragment of subtilisin-kexin isoenzyme for
PT producing a polypeptide useful for treating hypercholesterolemia, liver

PR steatosis and amyloidosis, comprises a specific amino acid sequence.
XX
XX Example 1; Page 25; 119pp; English.
CC The present sequence is a possible cleavage site in proSKI-1 which may be
CC targeted by a zymogen to form mature subtilisin-kexin isoenzyme 1 (SKI-
CC 1). The conserved site was identified by alignment of SKI-1 with other
CC subtilases. SKI-1 is a type-1 membrane-bound proteinase which cleaves pro
CC -brain-derived neurotrophic factor. Peptides which bind to and are
CC cleaved by SKI-1 may be used for monitoring SKI-1 activity, for screening
CC inhibitors of SKI-1 activity, or for screening enhancers of SKI-1
CC activity. Proteic fragments of SKI-1 which bind to the SKI-1 catalytic
CC site may be used as inhibitors of SKI-1 activity. They may be used to
CC treat diseases involving overexpression of SKI-1 or SKI-1 substrate. Such
CC diseases include hypercholesterolemia, high levels of fatty acids,
CC lipids or fatty acid pyrophosphate, liver steatosis, Ras-dependent cancer,
CC restenosis and amyloid protein formation
XX
SQ Sequence 8 AA;
Query Match 8.6%; Score 5; DB 3; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 19 SSRLL 23
DB 3 SSRLL 7
RESULT 15
AAR59128
ID AAR59128 standard; peptide; 9 AA.
XX
XX AAR59128;
AC
XX 16-OCT-2003 (revised)
DT 25-MAR-2003 (revised)
DT 02-MAY-1995 (first entry)
XX
XX Peptide fragment (1.0882) of HBV binds HLA-A2.1.
DE
XX
XX antigen; epitope; immunogenic target protein; PSA; HBV; HBV; EBV; HIV1;
KW core antigen; surface antigen; pharmaceutical composition; in vivo;
KW ex vivo; therapeutic; diagnostic; MHC class I molecule;
KW major histocompatibility complex; HLA-A2.1; 9mer; 10mer; anchor;
KW human leukocyte antigen.
XX
XX Hepatitis B virus; strain adw.
OS
XX WO9420127-A1.
XX
XX 15-SEP-1994.
XX
XX PD
XX 04-MAR-1994; 94WO-US002353.
XX
XX PF
XX 05-MAR-1993; 93US-00027146.
PR 04-JUN-1993; 93US-00073205.
PR 29-NOV-1993; 93US-00159184.
XX
XX (CYTE-) CYTEL CORP.
XX
XX PA
XX Grey HM, Sette A, Sidney J, Kaet W;
XX
XX WPI; 1994-302678/37.
XX
XX DR
XX Immunogenic peptide(s) having an HLA-A2.1 binding motif - used for
XX treatment or prophylaxis of cancer, virus infection or autoimmune
XX diseases.
XX
XX PT
XX Example 5; Page 101; 138pp; English.
XX
XX AAR59104-264 are immunogenic 9mer peptides that contain a HLA-A2.1
XX binding motif. These peptides bind HLA-A2.1 and have a binding affinity

CC of at least 1% as compared to a reference peptide (AAR71293). AAR59128
CC has an IC50 of 0.046 and the sequence occurs at position 1088 in the HBV
CC POL protein. The peptides of the invention can induce cytotoxic T
CC lymphocytes which can react with target cells. They can be used for the
CC treatment or prophylaxis of cancer, eg. prostate cancer or lymphoma, etc.
CC (Updated on 25-MAR-2003 to correct PW field.) (Updated on 16-OCT-2003 to
CC standardise OS field)
XX
XX SQ Sequence 9 AA;
Query Match 8.6%; Score 5; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.8e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 34 SIMLL 38
DB 5 SIMLL 9

Search completed: October 16, 2005, 05:57:20
Job time : 119 secs

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OM nucleic - protein search, using frame_plus_n2p model

Run on: October 16, 2005, 05:19:43 ; Search time 103.5 Seconds

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6	558	30.8	105	9	US-09-864-761-47901
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10	307	16.9	58	20	US-11-051-454-105
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35	130.5	7.2	214	16	US-10-128-520-124
36	130.5	7.2	214	16	US-10-128-520-127
37	130.5	7.2	214	17	US-10-887-231-17
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ALIGNMENTS

RESULT 1

US-09-957-708-29

Sequence 29, Application US/09957708

Publication No. US20030031678A1

GENERAL INFORMATION:

APPLICANT: Sun, Yongming

APPLICANT: Recipon, Herve

APPLICANT: Caffekey, Robert

APPLICANT: Ali, Shuifath

TITLE OF INVENTION: Compositions and Methods Relating to Prostate Specific

FILE REFERENCE: DEX-0239

CURRENT APPLICATION NUMBER: US/09/957,708

CURRENT FILING DATE: 2001-09-19

PRIOR APPLICATION NUMBER: 60/233,746

PRIOR FILING DATE: 2000-09-19

NUMBER OF SEQ ID NOS: 40

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 29

LENGTH: 318

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Db	307	ArgArgThrAlaPheCysCysAsnGlyGlnYsSer 318
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Sequence 103, Application US/10643795A		
Publication No. US20040241703A1		
GENERAL INFORMATION:		
APPLICANT: FREDERIC J. DESAUVAGE		
APPLICANT: GREGORY FRANTZ		
APPLICANT: KENNETH J. HILLAN		
APPLICANT: PAUL POLAKIS		
APPLICANT: ANDREW POLSON		
APPLICANT: VICTORIA SMITH		
APPLICANT: SUSAN D. SPENCER		
APPLICANT: THOMAS D. WU		
APPLICANT: ZEMIN ZHANG		
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND		
TITLE OF INVENTION: TREATMENT OF TUMOR		
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CURRENT FILING DATE: 2003-08-19		

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OM nucleic - protein search, using frame_n2p model

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-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdd
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTPMT=pct -NOR=ext -HEAPSIZE=500 -MUTLEN=0 -MAXLEN=2000000000
-USER=US10031158_QCGN_1_1_33 @runat_14102005_135536_16979 -NCPU=6 -ICPU=3
-NO MMAP -LARGEQUBRY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=10 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA:*

1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	917	50.6	323	6	5260223-4
2	917	50.6	323	6	5260223-4
3	798	44.0	274	1	US-08-256-964A-19
4	407	22.4	202	6	5189147-6
5	407	22.4	202	6	5189147-6
6	287	15.8	53	4	US-09-513-999C-4756
7	194	10.7	36	3	US-09-028-937-32
8	137.5	7.6	235	3	US-09-048-672A-10
9	129.5	7.1	235	2	US-08-378-939-12
10	127.5	7.0	238	3	US-08-793-450-6
11	127.5	7.0	240	3	US-09-049-672A-11
12	126.5	7.0	236	3	US-08-487-550-10

13	126.5	7.0	236	4	US-09-526-098-10	Sequence 10, Appl
14	126.5	7.0	236	4	US-09-383-916-10	Sequence 10, Appl
15	125.5	6.9	233	3	US-08-523-894-6	Sequence 6, Appl
16	125.5	6.9	233	3	US-09-049-672A-12	Sequence 12, Appl
17	125.5	6.9	235	4	US-09-152-060-70	Sequence 70, Appl
18	125.5	6.9	235	4	US-09-152-060-68	Sequence 88, Appl
19	125.5	6.9	236	3	US-09-049-672A-7	Sequence 7, Appl
20	123.5	6.8	302	4	US-09-789-697A-21	Sequence 21, Appl
21	123.5	6.8	303	4	US-09-509-347-7	Sequence 7, Appl
22	122.5	6.8	234	3	US-08-487-350-2	Sequence 2, Appl
23	122.5	6.8	234	4	US-09-526-098-2	Sequence 2, Appl
24	122.5	6.8	234	4	US-09-383-916-2	Sequence 2, Appl
25	121.5	6.7	293	6	5189147-3	Patent No. 5189147
26	121.5	6.7	293	6	5189147-3	Patent No. 5189147
27	119.5	6.6	215	4	US-09-949-016-10696	Sequence 10696, A
28	118.5	6.6	145	4	US-09-949-016-8908	Sequence 8908, Ap
29	115.5	6.4	306	3	US-09-082-593-2	Sequence 2, Appl
30	114.5	6.3	234	4	US-09-372-425A-4	Sequence 4, Appl
31	114	6.3	236	4	US-09-315-926A-79	Sequence 79, Appl
32	113.5	6.3	200	6	5189147-10	Patent No. 5189147
33	113.5	6.3	200	6	5189147-10	Patent No. 5189147
34	113.5	6.3	234	4	US-09-472-087-17	Sequence 17, Appl
35	113.5	6.3	234	4	US-09-472-087-69	Sequence 69, Appl
36	113.5	6.3	237	1	US-08-398-612A-28	Sequence 28, Appl
37	113.5	6.3	237	1	US-08-398-611A-28	Sequence 28, Appl
38	113.5	6.3	237	2	US-08-491-334A-28	Sequence 28, Appl
39	113.5	6.3	237	3	US-09-027-449-25	Sequence 25, Appl
40	113.5	6.3	237	3	US-08-804-444A-25	Sequence 25, Appl
41	113.5	6.3	237	3	US-09-026-985-25	Sequence 25, Appl
42	113.5	6.3	237	4	US-09-121-952A-25	Sequence 25, Appl
43	113.5	6.3	237	4	US-09-234-340A-25	Sequence 25, Appl
44	113.5	6.3	238	1	US-08-398-613A-28	Sequence 28, Appl
45	113	6.2	224	4	US-09-456-090A-40	Sequence 40, Appl

ALIGNMENTS

RESULT 1
5260223-4
Patent No. 5260223
APPLICANT: BRENNER, MICHAEL B.; STROMINGER, JACK L.; SEIDMAN,
JOHN G.; IP, STEPHEN H.; KRANGEL, MICHAEL S.
TITLE OF INVENTION: METHODS FOR DETECTION OF HUMAN GAMMA
CELL RECEPTOR
NUMBER OF SEQUENCES: 4
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/187,698
FILING DATE: 29-APR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 115,256
FILING DATE: 29-OCT-1987
APPLICATION NUMBER: 16,252
FILING DATE: 19-FEB-1987
APPLICATION NUMBER: 882,100
FILING DATE: 03-JUL-1986
SEQ ID NO: 4
LENGTH: 323
5260223-4

Alignment Scores:

Pred. No.: 2,23e-98
Score: 917.00
Percent Similarity: 90.05%
Best Local Similarity: 86.57%
Query Match: 50.58%
Matches: 7
Mismatches: 4
Indels: 1
Gaps: 1

US-10-031-158-13 (1-1027) x 5260223-4 (1-323)

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123 Lysleuphegylserglythrleuvalvalthrleuplyglnleuaspval 142

QY 85 TCCCCAGCCCACTATTCTTCTCTCAATGCTGTAAGCAAGCTCCAGAGGCTGGA 144
Db 143 SerProlyspromtrillepheleuproserrilleaglutrlyleuglnlyalaagly 162
QY 145 ACATACCTTGTCTCTTGAAGAAATTTTCCCTGATGTTATTAAGATCATTGGGAAGA 204
Db 163 ThrTyreucysleuleuglnlyphepheprosprielleysillestirpqlndlu 182
QY 205 AAGAAGCAACACGATTCCTGGATCCAGAGAGGGAACACCATGAGACTACAGACACA 264
Db 183 Lyslysserantnrilleleuglyserclngluliyantnrmetlysthrasnapthr 202
QY 265 TACATGAATTTAGCTGTTAACGCTGCCAGAAAAGTCACTGACCAAGAACACAGATGT 324
Db 203 Tyrmetyspreserttrpleuthrvalprogluliserleuaplysglulisaigcys 222
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QY 385 AAGAAG-----GATGTC 396
Db 243 LysThrAspValThrThrValAspProlyserTyraentYserlysaapalaaasapval 262
QY 397 ATCAATGATGCCCAAGACAAATTTGTCACAAAGATGCAATGATCACTGCTGACAG 456
Db 263 lilethreaspProlysaaspsanttrpserlysaaspsalaasapThrleuleulegln 282
QY 457 CTCACAAACACCTGATATTAATGATGATGATGATGATGATGATGATGATGATGATGAT 516
Db 283 LeuthranthrseralalyrtyrThrTyreuleuleuleuleuleuleuleuleuleule 302
QY 517 TTGGCATCATCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 576
Db 303 PhealallelethrCysCysleuleuargtrgthralapheCysCysasnglyglulys 322
QY 577 TCA 579
Db 323 Ser 323

RESULT 2
5260223-4
PATENT NO. 5260223
APPLICANT: BRENNER, MICHAEL B.; STROMINGER, JACK L.; SEIDMAN,
JOHN G.; IP, STEPHEN H.; KRANGEL, MICHAEL S.
TITLE OF INVENTION: METHODS FOR DETECTION OF HUMAN GAMMA
T CELL RECEPTOR
NUMBER OF SEQUENCES: 4
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/187,698
FILING DATE: 29-APR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 115,256
FILING DATE: 29-OCT-1987
APPLICATION NUMBER: 16,252
FILING DATE: 19-FEB-1987
APPLICATION NUMBER: 882,100
FILING DATE: 03-JUL-1986
SEQ ID NO: 4
LENGTH: 323
5260223-4
Alignment Scores:
Pred. No.: 2,23e-98 Length: 323
Score: 917.00 Matches: 174
Percent Similarity: 90.05% Conservative: 7
Best Local Similarity: 86.57% Mismatches: 4
Query Match: 50.58% Indels: 16
DB: 6 Gaps: 1
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QY 85 TCCCCAGCCCACTATTCTTCTCTCAATGCTGTAAGCAAGCTCCAGAGGCTGGA 144
Db 143 SerProlyspromtrillepheleuproserrilleaglutrlyleuglnlyalaagly 162
QY 145 ACATACCTTGTCTCTTGAAGAAATTTTCCCTGATGTTATTAAGATCATTGGGAAGA 204
Db 163 ThrTyreucysleuleuglnlyphepheprosprielleysillestirpqlndlu 182
QY 205 AAGAAGCAACACGATTCCTGGATCCAGAGAGGGAACACCATGAGACTACAGACACA 264
Db 183 Lyslysserantnrilleleuglyserclngluliyantnrmetlysthrasnapthr 202
QY 265 TACATGAATTTAGCTGTTAACGCTGCCAGAAAAGTCACTGACCAAGAACACAGATGT 324
Db 203 Tyrmetyspreserttrpleuthrvalprogluliserleuaplysglulisaigcys 222
QY 325 ATCGTCAGACATGAGAAATTAATAAACGAGTTGATCAAGAAATTAATCTTCTCCAAATA 384
Db 223 lilevalarghlscluanasnllyleaspglnglulillepheproproille 242
QY 385 AAGAAG-----GATGTC 396
Db 243 LysThrAspValThrThrValAspProlyserTyraentYserlysaapalaaasapval 262
QY 397 ATCAATGATGCCCAAGACAAATTTGTCACAAAGATGCAATGATCACTGCTGACAG 456
Db 263 lilethreaspProlysaaspsanttrpserlysaaspsalaasapThrleuleulegln 282
QY 457 CTCACAAACACCTGATATTAATGATGATGATGATGATGATGATGATGATGATGAT 516
Db 283 LeuthranthrseralalyrtyrThrTyreuleuleuleuleuleuleuleuleuleule 302
QY 517 TTGGCATCATCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 576
Db 303 PhealallelethrCysCysleuleuargtrgthralapheCysCysasnglyglulys 322
QY 577 TCA 579
Db 323 Ser 323

RESULT 3
US-08-256-964A-19
Sequence 19, Application US/08256964A
PATENT NO. 5723309
GENERAL INFORMATION:
APPLICANT: BONNEVILLE, MARC
TITLE OF INVENTION: PRODUCTION OF SUBUNITS OF SOLUBLE T
TITLE OF INVENTION: RECEPTORS BY CO-TRANSESECTION, USES OF THE PRODUCTS THUS
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Young & Thompson
STREET: 745 South 23rd Street
CITY: Arlington
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/256,964A
FILING DATE: 14-SEP-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: FR 92 14203
FILING DATE: 25-NOV-1992
ATTORNEY/AGENT INFORMATION:

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: October 15, 2005, 18:17:13 ; Search time 123.5 Seconds
(without alignments)
8516.685 Million cell updates/sec

Title: US-10-031-158-13
Perfect score: 1813
Sequence: 1 gggcagaagtgggcaga...attcaaaaatgaaggt 1027

Scoring table:
Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 3224756

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-DB=UniProt_03 -QFMT=fastan -SUFFIX=n2p.rup -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNITS=bits -START=-1 -END=-1 -MATRIX=biom62 -TRANS=human40.cdi -LIST=45
-DOCALLIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL
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-NO TIMEOUT=130 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -Fgapop=6
-Fgapext=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : UniProt_03 :
1: uniProt_sprot :
2: uniProt_trembl :*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1003	55.3	315	2	Q6IN96	Q6IN96 homo sapien
2	987	54.4	191	2	Q6P5Q5	Q6P5Q5 homo sapien
3	958	52.8	298	2	Q6IN44	Q6IN44 homo sapien
4	917	50.6	323	2	Q6P192	Q6P192 homo sapien
5	874	48.2	189	1	TCC_HUMAN	P03986 homo sapien
6	654.5	36.1	172	1	TCC2_MOUSE	P03985 mus musculus
7	645	35.6	198	2	Q7TN06	Q7TN06 mus musculus
8	630	34.7	169	1	TCC3_MOUSE	P06334 mus musculus
9	618	34.1	167	1	TCC1_MOUSE	P06353 mus musculus
10	593.5	32.7	340	2	Q6PKA9	Q6PKA9 mus musculus
11	562.5	31.0	190	1	TCC4_MOUSE	P06335 mus musculus
12	144.5	8.0	235	2	Q99M11	Q99M11 mus musculus
13	133.5	7.4	235	2	Q9DM44	Q9DM44 mus musculus
14	130.5	7.2	234	2	Q6GWM3	Q6GWM3 homo sapien
15	130.5	7.2	235	2	Q6P190	Q6P190 homo sapien
16	129.5	7.1	235	2	Q6IN99	Q6IN99 homo sapien

17	129.5	7.1	236	2	Q6NEJ1
18	129.5	7.1	240	2	Q6WUK3
19	128.5	7.1	233	2	Q6NSF4
20	128.5	7.1	233	2	Q6TBC9
21	128.5	7.1	234	2	Q6N355
22	128.5	7.1	234	2	Q6GMV8
23	128.5	7.1	234	2	Q7Z2U7
24	128.5	7.1	236	2	Q6GMK3
25	128.5	7.1	236	2	Q6IP00
26	128.5	7.1	236	2	Q6PIQ7
27	127.5	7.0	208	2	Q6V501
28	126.5	7.0	230	2	Q7Z2U3
29	126.5	7.0	303	2	Q7TND8
30	125.5	6.9	236	2	Q6GMK4
31	124.5	6.9	235	2	Q6PIK1
32	123.5	6.8	233	2	Q6GMW4
33	123.5	6.8	233	2	Q6NS96
34	123.5	6.8	234	2	Q6NS95
35	123.5	6.8	235	2	Q6GMW6
36	123.5	6.8	236	2	Q6GEB1
37	123.5	6.8	236	2	Q6GMV7
38	123.5	6.8	236	2	Q6P5S3
39	120.5	6.6	104	1	LAC1_RAT
40	119.5	6.6	233	2	Q6P169
41	118.5	6.5	235	2	Q6P2J1
42	118.5	6.5	237	2	Q6DHW4
43	117.5	6.5	213	1	TILL_HUMAN
44	117.5	6.5	235	2	Q6P1F2
45	117.5	6.5	294	2	Q6K1Z5

ALIGNMENTS

RESULT 1

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AC	Q6IN96			
ID	Q6IN96			
DT	05-JUL-2004 (TREMBLrel. 27, Created)			
DT	05-JUL-2004 (TREMBLrel. 27, Last sequence update)			
DT	05-JUL-2004 (TREMBLrel. 27, Last annotation update)			
GN	TRGV9 protein.			
DN	Name=TRGV9;			
OS	Home sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
OX	NCBI_Taxid=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Blood;			
RX	MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;			
RA	Strausberg R.L., Feingold B.A., Grouse L.H., Derge J.G.,			
RA	Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,			
RA	Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bat N.K.,			
RA	Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,			
RA	Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,			
RA	Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,			
RA	Brownstein W.J., Usdin T.B., Toshiyuki S., Carrinci P., Prange C.,			
RA	Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,			
RA	Boeak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,			
RA	Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hilyk S.W.,			
RA	Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,			
RA	Paley J., Hellon E., Kettleman M., Madan A., Rodriguez S., Sanchez A.,			
RA	Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,			
RA	Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,			
RA	Rodriguez A.C., Grimwood J., Schmutz J., Myers R.W., Buterfield Y.S.,			
RA	Krzywniński M.I., Skalska U., Smalick D.R., Schnerch A., Schein J.E.,			
RA	Jones S.J., Maiz M.A.,			
RT	"Generation and initial analysis of more than 15,000 full-length human			
RT	and mouse cDNA sequences".			
RL	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).			
RN	[2]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Blood;			

RA Strausberg R.;
 RL Submitted (JUN-2004) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC072396; AAH72396.1; -
 DR HSSP; P06323; IAC6.
 DR InterPro; IPR003599; IG.
 DR InterPro; IPR007110; IG-like.
 DR InterPro; IPR003597; IG-cl.
 DR InterPro; IPR003596; IG_v.
 DR SMART; SM00409; IG; 1.
 DR SMART; SM00407; IG; 1.
 DR SMART; SM00406; IG; 1.
 DR PROSITE; PS00835; IG_LIKE; 2.
 SQ SEQUENCE 315 AA; 3529 MW; 7A17E7130F84DB46 CRC64;

Alignment Scores:
 Pred. No.: 2,228-89 Length: 315
 Score: 1003.00 Matches: 190
 Percent Similarity: 99.48% Conservative: 0
 Best Local Similarity: 99.48% Mismatches: 1
 Query Match: 55.32% Indels: 0
 DB: Gaps: 0

US-10-031-158-13 (1-1027) x Q6IN96 (1-315)

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 Db 125 GILUENGILYLYSLYSLILELYSLVALPHEGLYPROGILYTHRLYSLILETHRAAPLYS 144
 QY 67 CAACCTGATGAGATGTTTCCCGCAAGCCACTATTTTCTTCAATTTGCTGAACA 126
 Db 145 GILNEUAPALAAAPVALSERPROLYSPROTHRLILEPHEUPROSERILEALGLUTHR 164
 QY 127 AAGCTCCAGAAAGCTGGAACATACCTTTGCTTCTTGAGAAATTTTCCGTGATTTAT 186
 Db 165 LYSLEUGILNLYSALGLYTHRYLEUCYSLEUENGLIULYSPHEPHEPROAPVALILE 184
 QY 187 AAGATCACTTGGAGAAAGAAAGCAACAGCATTTCTGGGATCCCAAGAGGGGAACCC 246
 Db 185 LYSILEHISTPGLIULYSLYSEKANTHRLILEUENGLYSEGLINGLIYANHTH 204
 QY 247 ATGAAGATCAACGACATACATGAAATTAGCTGTTAAAGGTGCCGAAAGCACTG 306
 Db 205 METLYSTHRAAPHTHRLYTHRYMETLYSPHESETRIPLETHNVALPROGLIULYSEU 224
 QY 307 GACAAGAACAAGATGATCGTCGACATGAGAAATAATAAACAAGAGTTGATCAAGAA 366
 Db 225 APLYSGLIULHISARYCYEILEVALRGLHISGLUAENANLYSANGLYVALASPGLING 244
 QY 367 ATTATCTTCTCCCAATTAAGACGATGTGATCAATGAGATCCCAAGACAATTGTTCA 426
 Db 245 ILEILEPHEPROPILELYSTHRAAPVALILETHMETASPPLYLAPASPNICYSE 264
 QY 427 AAAAGATGAATGATACACTACTGCTGAGAGTCACAAACACCTTGACATATTAAGATGAC 486
 Db 265 LYSAPALAAENAPHTHRLILEUENGLIULNTHRAHTHNSERALETHRYTHRY 284
 QY 487 CTCCTCTGCTCTCAAGAGTGTGCTATTTTGCATCATCACTGCTGTCTGCTTAGA 546
 Db 285 LEULEUENLEULEULYSEVALVALTYRPHENALILEILETHCYCYSELEULEUNLY 304
 QY 547 AGAAGCGCTTTTGTGCTGCAATGAGAGAAATCA 579
 Db 305 ARGTHRALAPHECYSEASNGLYGLIULYSE 315

RESULT 2
 Q6P505 PRELIMINARY; PRT; 191 AA.
 AC Q6P505;
 DT 05-JUL-2004 (TREMBLrel. 27, Created)
 DT 05-JUL-2004 (TREMBLrel. 27, Last sequence update)
 DT 05-JUL-2004 (TREMBLrel. 27, Last annotation update)
 DE TRGV9 protein (Fragment).
 GN Name=TRGV9;

OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Prostate;
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Alech S.F., Zaeberg B., Buetow K.H., Schaefer C.F., Bat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Dichtchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Ueda T.B., Toshiyuki S., Carrinci P., Prange C.,
 RA Rask S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mulhaly S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Huliy S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butlerfield Y.S.,
 RA Kravinsky M.I., Skalska U., Smalins D.E., Scherch A., Schain J.E.,
 RA Jones S.J., Marz M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences";
 RV Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Prostate;
 RX Strausberg R.;
 RL Submitted (NOV-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC062761; AAH62761.1; -
 DR InterPro; IPR007110; IG-like.
 DR InterPro; IPR003597; IG-cl.
 DR SMART; SM00407; IG; 1.
 DR PROSITE; PS00835; IG_LIKE; 1.
 FT NON TER 1
 SQ SEQUENCE 191 AA; 21639 MW; D503094A172F4F7B CRC64;

Alignment Scores:
 Pred. No.: 7,498-88 Length: 191
 Score: 987.00 Matches: 186
 Percent Similarity: 100.00% Conservative: 2
 Best Local Similarity: 98.94% Mismatches: 0
 Query Match: 54.44% Indels: 0
 DB: Gaps: 0

US-10-031-158-13 (1-1027) x Q6P505 (1-191)

QY 16 AAAAAATCAAGATATTGGTCCGGAACAAGCTTATCATTAAGATAAACTTGAT 75
 Db 4 LYSLSLELYSLYSLVALPHEGLYPROGILYTHRYSLILELETHRAAPLYSLILE 23
 QY 76 GCAAGTGTTCCTCCCAAGCCACTATTTTCTTCAATTTGCTGAACAAGCTCCAG 135
 Db 24 ALAAPVALSERPROLYSPROTHRLILEPHEUPROSERILEALGLUTHRYLEU 43
 QY 136 AAGCTGGAACATACCTTTGCTTCTTGAGAAATTTTCCGTGATTTGATTAAGATCAT 195
 Db 44 LYSALGLYTHRYLYSLYSLYSLYSLYSLYSLYSLYSLYSLYSLYSLYSLYSLYSL 63
 QY 196 TGGAGAAGAAAGAGAGAGACAGCATTTCTGGATCCAGAGAGAGAAACACCATGAAGACT 255
 Db 64 TTPGLINGIULYSLYSEKANTHRLILEUENGLIULNGLIYANHTHMETLYSTH 83
 QY 256 AAGACATATCATGAATTAATTAAGCTGTTAAAGGTGCCGAAAGATCATGACAAAGAA 315
 Db 84 AANAPHTHRYMETLYSPHESETRIPLETHNVALPROGLIULYSEUASPLYSGLIN 103
 QY 316 CACAGATGATCGTCGACATGAGAAATAATAAACAAGAGTTGATCAAGAAATTAATCTTT 375

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - protein search, using frame_plus.n2p model

Run on: October 16, 2005, 04:25:08 ; Search time 37 Seconds

(without alignments)
5341.331 Million cell updates/sec

Title: US-10-031-158-13

Perfect score: 1813

Sequence: 1 G9GCAAGAGTGGGCAAAA.....attcaaaaatgaaagtc 1027

Scoring table: BLOSUM62
Xgapop 10.0, Xgapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 566832

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+n2p.model -DEV=xlp
-Q=/cgnr2/USFPO_pool/p/US10031158/runat_14102005_135536_16965/app_query.fasta_1.1223
-DB=FIR_79 -QFMT=fastan -SUFPR=n2p.rpr -MINMATCH=0.1 -LOOPECL=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=-1 -MATRIX=blsum62 -TRANS=human40.cdi -LIST=45
-DOCLIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODB=LOCAL
-OUTFMT=plco -NORM=ext -HEADSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US10031158 @CGN 1.1 38 @runat_14102005_135536_16965 -NCPU=6 -ICPU=3
-NO MMAR -LARGQUERY -NEG SCORES=0 -WAIT -DSFBLLOC=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THRAD=1 -XGAPOP=10 -XGAPEXT=0.5 -Fgapop=6
-Fgapext=7 -YGAPOP=10 -YGAPEXT=0.5 -DELop=6 -DELEXT=7

Database :
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	917	50.6	323	2	S01895
2	916	50.5	173	2	A26659
3	910	50.2	340	2	S03517
4	874	48.2	189	1	RMWUGC
5	874	48.2	189	2	B26659
6	866	47.8	205	2	B26425
7	814	44.9	304	2	S04663
8	798	44.0	210	2	S33440
9	662.5	36.5	210	2	JC4683
10	654.5	36.1	172	1	RMWSC7
11	642.5	35.4	172	2	D26420
12	630	34.7	169	1	RMWSC2
13	628.5	34.7	171	2	S04831
14	618	34.1	167	1	RMWSC1

15	582.5	32.1	206	2	C49054	T-cell receptor ga
16	562.5	31.0	190	1	RMWSC	T-cell receptor ga
17	562	31.0	204	2	S36287	T-cell receptor ga
18	553.5	30.5	234	2	B43546	T-cell receptor ga
19	551.5	30.4	245	2	A43546	T-cell receptor ga
20	550	30.3	179	2	S36289	T-cell receptor ga
21	549	30.3	216	2	S36288	T-cell receptor ga
22	270	14.9	52	2	A22340	T-cell receptor ga
23	270	14.9	202	2	S36293	T-cell receptor ga
24	267	14.7	168	2	S36294	T-cell receptor ga
25	263	14.5	210	2	S36297	T-cell receptor ga
26	259	14.3	203	2	S36291	T-cell receptor ga
27	253	14.0	203	2	S23043	T-cell receptor ga
28	241	13.3	179	2	S36290	T-cell receptor ga
29	204	11.3	185	2	S36295	T-cell receptor ga
30	145	8.0	218	2	A36198	T-cell receptor be
31	138.5	7.6	243	2	S25755	Ig lambda chain -
32	137.5	7.6	235	2	S25749	Ig lambda chain -
33	134.5	7.4	208	2	B49444	Ig lambda chain (N
34	133.5	7.4	214	2	PC4156	Ig lambda chain V
35	131.5	7.3	231	2	S25751	Ig lambda chain -
36	130.5	7.2	118	2	A39949	Ig lambda chain J-
37	130.5	7.2	226	2	S25745	Ig lambda chain -
38	129.5	7.1	216	2	S69130	Ig lambda chain (D
39	129.5	7.1	231	2	S25753	Ig lambda chain -
40	129.5	7.1	233	2	S25741	Ig lambda chain -
41	129.5	7.1	240	2	A41797	Ig light chain - s
42	128.5	7.1	118	2	S12442	Ig lambda chain (K
43	128.5	7.1	118	2	S12441	Ig lambda chain (K
44	128.5	7.1	190	2	S25740	Ig lambda chain -
45	128.5	7.1	213	2	S21066	Ig lambda chain V

ALIGNMENTS

RESULT 1

S01895

T-cell receptor gamma chain precursor - human

CSpecies: Homo sapiens (man)

CDate: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 21-Jan-2000

CAccession: S01895

RHOCHSTENBACH, F.; PARKER, C.; MCLEAN, J.; GIESELMANN, V.; BAND, H.; BANK, I.; CHASS, L

J. Exp. Med. 168, 761-776, 1988

A>Title: Characterization of a third form of the human T cell receptor gamma/delta.

AReference number: S01895; MUID:88316186; PMID:3261778

AAccession: S01895

A/Molecule type: mRNA

A/Residues: 1-323 <HOC>

A/Cross-references: EMBL:Y00790; NID:G37017; PIDN:CAA68744.1; PID:G37018

C/Superfamily: Immunoglobulin V region; Immunoglobulin homology

C/Keywords: glycoprotein; T-cell receptor

F114/Domain: signal sequence #status predicted <SIG>

F115-323/Product: T-cell receptor gamma chain #status predicted <MAT>

F115-120/Region: V segment

F1121-134/Region: C region #status predicted <CRE>

F1135-323/Domain: C region #status predicted <IMM>

F1159-224/Domain: immunoglobulin homology <IMM>

F1106,200,254,270,276,285/Binding site: carbohydrate (asn) (covalent) #status predicted

Alignment Scores:

Pred. No.: 9.57e-80 Length: 323
Score: 917.00 Matches: 174
Percent Similarity: 90.05% Conservative: 7
Best Local Similarity: 86.57% Mismatches: 4
Query Match: 50.58% Indels: 16
DB: 2 Gaps: 1

US-10-031-158-13 (1-1027) x S01895 (1-323)

OY 25 AAGGATTTGGTCCCGAACAAGCTATCATCAAGTAACAAGCTGATGAGATGTT 84
DB 123 LysleuphegylserglythrleuvalvalthrleuplysGlnleuaspalaspval 142

```

QY      85  TCCCCAGGCCACATATTTTCTTCTCAATGCTGAAACAAAGCTCCAGAGGCTGCA 144
Db      143  SerProlySProthrllePheLeuProSerllealagIutrllyleuGlnlySargly 162
QY      145  ACATCCTTTGCTCTTGAGAAATTTTCCCTGATGTATTAATCAATGAGGAGAA 204
Db      163  ThrTyrleuCySleuueGlnlySphPheProabPlellelySalllehlstrpGlnGly 182
QY      205  AAGAAAGCAACAGCATTTCTGGGATCCAGAGGGGAAACACCATGAGAGACTAACGACACA 264
Db      183  LysIysSerAenThrllleuGlySerGlnGlnGlyAenThrMetLysThrAsnAspThr 202
QY      265  TACATGAATTTAGCTGTAAAGCTGCCAGAAAAGTCACTGAGCAAAAGACAGATGT 324
Db      203  TyrMetLysPheSerTrpLeuThrValProGlnGlnSerLeuAspLysGlnHlsargCys 222
QY      325  ATCGTCAGACATGAGAAATTAATAACGAGTGTGATCAGAAATATATCTTCTCCATTA 384
Db      223  lleValalghlsglnAsnAsnlySasnGlylleSpglnGlnllelePheProGlnle 242
QY      385  AAGACG-----GATGTC 396
Db      243  LysThrAspValIThrThrValAspProLysTyrAsnTyrSerLysAspAlaAsnAspVal 262
QY      397  ATCAACATGATCCCAAGACAAATGTCTTCAAAAGATGCAATGATCACTACTGCTGAC 456
Db      263  lleThrMetAspProLysAspAsnTrpSerLysAspAlaAsnAspThrleuLeuGln 282
QY      457  CTCACAAACACCTGCTGATATTAACATGTACCTCCCTGCTGCTCAAGAGTGTGCTAT 516
Db      283  LeuThrAsnThrSerAlaTyrTyrThrTyrleuLeuLeuLeuLysSerValIValTyr 302
QY      517  TTGGCATCATCACTGCTGTCTGCTTGAAGAAACGAGTTTCTGCTGCAATGAGAGAAA 576
Db      303  PheAlaIlelleThrCysCysleuLeuArgTrAlaPheCysCysAsnGlyGlnLys 322
QY      577  TCA 579
Db      323  Ser 323

```

RESULT 2

```

A26659
T-cell receptor gamma-1 chain C region - human
N/Alternate names: T-cell receptor gamma chain C region (D-PLL)
C/Species: Homo sapiens (man)
C/Date: 30-Jun-1988 #sequence_revision 30-Jun-1988 #text_change 21-Jan-2000
C/Accession: A26659; B22340
R/Ref: M.P.; Foster, A.; Rabbits, T.H.
Proc. Natl. Acad. Sci. U.S.A. 83, 9596-9600, 1986
A/Title: Genetic polymorphism and exon changes of the constant regions of the human T-cell receptor gamma chain C region
A/Reference number: A94708; MUID:87092294; PMID:2879283
A/Accession: A26659
A/Molecule type: DNA
A/Residues: 1-173 <LEF>
R/Ref: M.P.; Rabbits, T.H.
Nature 316, 464-466, 1985
A/Title: Two tandemly organized human genes encoding the T-cell gamma constant-region segment
A/Reference number: A93365; MUID:85268055; PMID:2991773
A/Accession: B22340
A/Molecule type: DNA
A/Residues: 1-52 <LE2>
C/Genetics:
A/Intons: 111/1; 127/1
C/Superfamily: Immunoglobulin C region; Immunoglobulin homology
C/Keywords: T-cell receptor
F/25-90/Domain: Immunoglobulin homology <IM>

```

Alignment Scores:

```

Pred. No.: 1.17e-79 Length: 173
Score: 916.00 Matches: 172
Percent Similarity: 100.00% Conservative: 1
Best Local Similarity: 99.42% Mismatches: 0
Query Match: 50.52% Indels: 0

```

```

DB:      2 Gaps: 0
US-10-031-158-13 (1-1027) x A26659 (1-173)
QY      61  GATAAACAAGCTGATGAGATGTTTCCCCCAAGCCACATATTTTCTTCTCAATGCT 120
Db      1  AspySglnLeuAspAlaAspValSerProlySProthrllePheLeuProSerlleala 20
QY      121  GAAACAAGCTCCAGAAAGCTGAGAAACATACCTTTGCTCTTGAAGAAATTTTCCCTGAT 180
Db      21  GlutrllySleuGlnlySarglyThrTyrleuCySleuueGlnlySphPheProabP 40
QY      181  GTTATTAAAGATCACTGGGAAAGAAAGAAAGCAACAGATTCCTGGGATCCCAAGAGGG 240
Db      41  ValleySlllehlstrpGlnGlnlySserAsnThrllleuGlySerGlnGlnly 60
QY      241  AAGACATGAAGACTCAACGACATACATGAAATTTAGCTGTAAAGCTCCAGAAAG 300
Db      61  AsnThrMetLysTrpAsnAspThrTyrMetLysPheSerTrpLeuThrValProGlnLys 80
QY      301  TCACATGACAAAGAACACAGATGTATCGTCAGACATGAGAAATTAATAACGAGTGTAT 360
Db      81  SerleuAspLysGlnHlsargCysalleValalghlsglnAsnAsnlySasnGlyValAsp 100
QY      361  CAAGAAATTTATCTTCTTCTCCATTAAGACGATGTCAATGATCCCAAGACAT 420
Db      101  GlnGlnllellelePheProGlnleLysThrAspValIleThrMetAspProLysAspAsn 120
QY      421  TGTTCAAAGATGGAATATGATACACTACTGCTGAGCTCAACAAACACCTGCTGATATAC 480
Db      121  CysSerLysAspAlaAsnAspThrleuLeuGlnleuLeuThrAsnThrSerAlaTyrTyr 140
QY      481  ATGTACCTCTCTGCTGCTCTTCAAGAGTGTGCTATTTGTCATCATCACTGCTGTCTG 540
Db      141  MetTyrleuLeuLeuLeuLysSerValIValTyrPheAlaIlelleThrCysCysleu 160
QY      541  CTTAGAAAGACGCGTTTCTGCTGCAATGAGAGAAATTA 579
Db      161  LeuArgTrAlaPheCysCysAsnGlyGlnLysSer 173

```

RESULT 3

```

S03517
T-cell receptor gamma chain precursor (clone pm17c64) - human
C/Species: Homo sapiens (man)
C/Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 21-Jan-2000
C/Accession: S03517
R/Ref: L.J.; Foster, A.; Clark, D.M.; Boylston, A.W.; Lavenir, I.; Rabbits, T.H.
Eur. J. Immunol. 17, 1729-1736, 1987
A/Title: Unusual forms of T cell gamma mRNA in a human T cell leukemia cell line: implications for the structure of the gamma chain
A/Reference number: S03517; MUID:88083067; PMID:2961573
A/Accession: S03517
A/Molecule type: mRNA
A/Residues: 1-340 <TIG>
A/Cross-references: EMBL:X06774; NID:937346; PIDN:CAA29941.1; PID:937347
A/Note: this sequence was determined from the differentiated gene
C/Superfamily: Immunoglobulin V region; Immunoglobulin homology
C/Keywords: T-cell receptor
F/1-20/Domain: signal sequence #status predicted <SIG>
F/21-340/Product: T-cell receptor gamma chain #status predicted <MAT>
F/121-116/Domain: V region (V-gamma-8) #status predicted <VRE>
F/121-115/Domain: J region (J-gamma-2) #status predicted <JRE>
F/136-340/Domain: C region (C-gamma-2) #status predicted <CRE>
F/160-225/Domain: Immunoglobulin homology <IM>

```

Alignment Scores:

```

Pred. No.: 4.51e-79 Length: 340
Score: 910.00 Matches: 174
Percent Similarity: 83.41% Conservative: 7
Best Local Similarity: 80.18% Mismatches: 4
Query Match: 50.19% Indels: 32
DB:      2 Gaps: 1

```

```
US-10-031-158-13 (1-1027) x S03517 (1-340)
```

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: October 15, 2005, 18:13:26 ; Search time 98 Seconds
(without alignments)
8106.182 Million cell updates/sec

Title: US-10-031-158-13

Perfect score: 1813

Sequence: 1 gggcagaagctgggcaaaaa.....atctaaataatgaagctt 1027

Scoring table:

BLOSUM62	Xgapop 10.0 ,	Xgapext 0.5
	Ygapop 10.0 ,	Ygapext 0.5
	Fgapop 6.0 ,	Fgapext 7.0
	Delop 6.0 ,	Delext 7.0

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 4211384

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

-MODEL=frame+ n2p model -DEV=xlip
-Q=/cgn2_1/USFto_spool_p/US10031158/runat_14102005_135535_16945/app_query.fasta_1.1223
-DB-A=Geneseq_16Dec04 -QMT=fastan -SUFFIX=n2p.rag -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blom62 -TRANS=human40.cdi
-LIST=45 -OCALIGN=200 -THR SCORE=PCT -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=PLC -NOM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US10031158 @CGN_1_1_154 @runat_14102005_135535_16945 -NCPU=6 -ICPU=3
-NO_MMAP -LARGESUBSTRY -NEG_SCORES=0 -WAIT -DSPLOCK=100 -LONGLOCK
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

1: Geneseq_16Dec04:*
2: geneseqp1980s:*
3: geneseqp1980s:*
4: geneseqp2000s:*
5: geneseqp2000s:*
6: geneseqp2000s:*
7: geneseqp2000s:*
8: geneseqp2000s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1011	55.8	318	5	AAE24064 Human pro
2	1005	55.4	318	8	ADL06523 Human tum
3	959	52.9	311	7	AD661825 Human pro
4	917	50.6	323	2	AA323906 TCR gamma
5	916	50.5	221	8	ADR66006 Human pro
6	916	50.5	221	8	ADR66904 Human pro
7	911	50.2	345	8	AD608976 Human pro
8	908	50.1	338	7	ADP54940 Human pro
9	907	50.0	324	7	AD607898 Human pro
10	894	49.3	324	1	AA91885 Deduced s

11	798	44.0	274	2	AA55705 Human lym
12	798	44.0	274	6	ABR82494 Human T c
13	798	44.0	275	7	AD661829 Human pro
14	658.5	36.3	331	7	AD661823 Rat Prote
15	658.5	36.3	331	7	AD661827 Rat Prote
16	649	35.8	304	1	AA91816 Mammalian
17	649	35.8	304	2	AAW01533 Cytoxic
18	649	35.8	304	3	AAW50115 Murine cy
19	595	32.8	111	4	AA666400 Human pro
20	558	30.8	105	4	AB628899 Peptide #
21	558	30.8	105	5	AA67238 Human bon
22	558	30.8	105	5	AB636889 Human pro
23	483.5	26.7	101	3	AA564420 Human TCR
24	307	16.9	58	4	AB663399 Human TCR
25	307	16.9	58	7	AD675581 Protease
26	307	16.9	58	8	ADP54863 Human PRO
27	293	16.2	67	8	ADP64625 Human onc
28	287	15.8	53	3	AA600675 Human sec
29	242	13.3	57	1	AA91813 Peptide d
30	242	13.3	57	3	AA50116 Murine CT
31	196	10.8	53	4	AB605498 Novel hum
32	194	10.7	36	2	AA39432 Human T-c
33	194	10.7	36	5	AAU78032 Human T c
34	175	9.7	62	8	ADP64624 Human onc
35	138.5	7.6	244	4	AB619289 Novel hum
36	137.5	7.6	235	4	AA36212 Human lmm
37	137	7.6	686	5	AD117259 Human NOV
38	135.5	7.5	240	3	AA96306 Human IGF
39	134.5	7.4	214	6	ABR01470 Human ant
40	133.5	7.4	214	2	AAW27091 Mouse mon
41	133.5	7.4	215	6	ABR01496 Human ant
42	133.5	7.4	215	6	ABR01465 Human ant
43	133.5	7.4	216	6	ABR01477 Human ant
44	133.5	7.4	240	6	AAU14141 Human nov
45	132.5	7.3	215	6	ABR01466 Human ant

ALIGNMENTS

RESULT 1	AAE24064	standard; protein; 318 AA.
AC	AAE24064;	
DT	23-SEP-2002	(first entry)
XX		
DE	Human prostate specific protein (PSP) #7.	
XX		
KW	Human; prostate specific protein; PSP; prostate specific nucleic acid;	
KW	vaccine; transgenic; prostate cancer; gene therapy; transgenic animal;	
KW	PSNA.	
XX		
OS	Homo sapiens.	
XX		
PN	WO200224718-A1.	
XX		
PD	28-MAR-2002.	
XX		
PF	19-SEP-2001; 2001WO-US029386.	
XX		
PR	19-SEP-2000; 2000US-0233746P.	
XX		
FA	(DIAD-) DIADEXUS INC.	
XX		
PI	Sun Y, Recipon H, Caffery R, All S;	
XX		
DR	WPI; 2002-471216/50.	
XX		
FT	Novel isolated prostate specific polypeptide useful for identifying,	
PT	diagnosing, monitoring, staging, imaging, and treating prostate cancer	
XX	and non-cancerous disease states in prostate.	

PS Claim 37, Page 200-201, 210pp; English.

CC The invention relates to prostate specific proteins (PSP) and prostate
CC specific nucleic acids (PSNA). Sequences of the invention are useful for
CC identifying, diagnosing, monitoring, staging, imaging and treating
CC prostate cancer and non-cancerous disease states in prostate. They are
CC also useful for producing engineered prostate tissue for treatment and
CC research. The PSNA sequences are used in gene therapy and for producing
CC transgenic animals and cells. The invention is also used as vaccines. The
CC present sequence is human prostate specific protein of the invention

XX Sequence 318 AA;

SO Alignment Scores:

Pred. No.:	4,48e-102	Length:	318
Score:	1011.00	Matches:	191
Percent Similarity:	100.00%	Conservative:	1
Best Local Similarity:	99.48%	Mismatches:	0
Query Match:	5,76%	Indels:	0
DB:	5	Gaps:	0

US-10-031-158-13 (1-1027) x AAE24064 (1-318)

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QY 64 AAACAACTTGATGAGATGTTTCCCGCAAGCCCACTATTTTCTTCCCTCAATGCTGAA 123
DB 147 LysGlnLeuAspAlaAspValSerProLysProThrIlePheLeuProSerIleAlaGlu 166
QY 124 ACAAGCTCCAGAAAGCTGGAACATACCTTTGCTCTTCTTGAGAAATTTTCTCGATGTT 183
DB 167 ThrIleLeuGlnLysAlaGlyThrIleLeuGlySerLeuGlnLysPheProAspVal 186
QY 184 ATTAAGATACATTGGGAAAGAAAGAAAGCAACAGATTCCTGGGATCCCAAGGGGGAAC 243
DB 187 IleLysIleHisTrpGlnGlnLysLysSerAsnThrIleLeuGlySerGlnGlnLysAsn 206
QY 244 ACCATGAAGACTAAGCAACATACATGAAATTTAGCTGTTAAAGGTCGCAAGAAAGTCA 303
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QY 364 GAATTAATCTTCTTCCCAATTAAGCGATGTCATCAATAGATCCCAAGACAAATGT 423
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QY 484 TACCTCTCTGCTCTCTCAAGAGTGTGCTAATTTGGCATCATCACTGCTGTGCTT 543
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RESULT 2

ADL06523 standard; protein; 318 AA.

ADL06523;

20-MAY-2004 (first entry)

Human tumour-associated antigenic target (TAT) polypeptide #22.

KW Human; tumour-associated antigenic target; TAT; cell death; tumour;
cancer; cytostatic.

OS Homo sapiens.

XX WO2004016225-A2.

XX 26-FEB-2004.

XX 19-AUG-2003; 2003WO-US025892.

XX 19-AUG-2002; 2002US-0404809P.

XX 21-AUG-2002; 2002US-0405645P.

XX 23-SEP-2002; 2002US-0413192P.

XX 15-OCT-2002; 2002US-0419008P.

XX 15-NOV-2002; 2002US-0426847P.

XX 02-JUL-2003; 2003US-0484959P.

XX (GENTH) GENENTECH INC.

XX Desauvage PJ, Prantz G, Hillan KJ, Polakis P, Polson A, Smith V;
PI Spencer SD, Wu TD, Zhang Z;

XX WPI; 2004-257144/24.

XX N-PSDB; ADL06443.

XX New antibody that binds to a tumor-associated antigenic target (TAT)
PT polypeptide, useful for preparing a composition for diagnosing or
PR treating cancer.

XX Claim 2; SEQ ID NO 103; 319pp; English.

CC The present invention relates to the isolation of human tumour-associated
CC antigenic target (TAT) polynucleotide and polypeptide sequences. Also
CC disclosed is an antibody that binds to a TAT polypeptide. The antibody is
CC a monoclonal antibody, an antibody fragment, a chimeric antibody or a
CC humanised antibody. It is conjugated to a growth inhibitory agent. It is
CC produced in bacteria or in CHO cells and induces death of a cell to which
CC it binds. The antibody is useful for preparing a composition for
CC diagnosing or treating tumours and cancer. The present sequence
CC represents a human TAT polypeptide of the invention.

XX Sequence 318 AA;

SO Alignment Scores:

Pred. No.:	2,06e-101	Length:	318
Score:	1005.00	Matches:	190
Percent Similarity:	99.48%	Conservative:	1
Best Local Similarity:	98.96%	Mismatches:	1
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US-10-031-158-13 (1-1027) x ADL06523 (1-318)

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QY 64 AAACAACTTGATGAGATGTTTCCCGCAAGCCCACTATTTTCTTCCCTCAATGCTGAA 123
DB 147 LysGlnLeuAspAlaAspValSerProLysProThrIlePheLeuProSerIleAlaGlu 166
QY 124 ACAAGCTCCAGAAAGCTGGAACATACCTTTGCTCTTCTTGAGAAATTTTCTCGATGTT 183
DB 167 ThrIleLeuGlnLysAlaGlyThrIleLeuGlySerLeuGlnLysPheProAspVal 186
QY 184 ATTAAGATACATTGGGAAAGAAAGAAAGCAACAGATTCCTGGGATCCCAAGGGGGAAC 243
DB 187 IleLysIleHisTrpGlnGlnLysLysSerAsnThrIleLeuGlySerGlnGlnLysAsn 206
QY 244 ACCATGAAGACTAAGCAACATACATGAAATTTAGCTGTTAAAGGTCGCAAGAAAGTCA 303
DB 207 ThreLysTrnAsnAspThrIleThrLysPheSerTrpLeuThrValProGlnLysSer 226
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GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: October 15, 2005, 17:17:31 ; Search time 830 Seconds

(without alignments)
8673.699 Million cell updates/sec

Title: US-10-031-158-13

Perfect score: 1027
Sequence: 1 gggcaagagctgggcaaaaa.....attcaaaatgaagctc 1027

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 8765912 seqs, 3504951483 residues

Total number of hits satisfying chosen parameters: 17531824

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	1025.4	99.8	1027	US-10-205-823-404	Sequence 404, App
2	1025.4	99.8	1027	US-10-756-149-2859	Sequence 2859, App
3	1025.4	99.8	1027	US-11-051-454-404	Sequence 404, App
4	1012.2	98.6	1395	US-10-643-795A-23	Sequence 23, App1
5	1012.2	98.6	1395	US-10-948-518-23	Sequence 23, App1
6	966.6	94.1	1799	US-10-101-510-492	Sequence 492, App
7	944	91.9	1418	US-09-957-708-16	Sequence 16, App1

8	906	88.2	1155	9	US-09-925-300-58
9	900.6	87.7	1421	9	US-09-954-456-317
10	900.6	87.7	1421	21	US-10-843-641A-3344
11	836.4	81.4	1586	10	US-09-960-706-676
12	836.4	81.4	1586	10	US-09-873-319-424
13	836.4	81.4	1586	21	US-10-847-918-14
14	795.8	77.5	1162	20	US-10-357-930-21517
15	795.8	77.5	1162	20	US-10-357-930-24142
16	795.8	77.5	1162	20	US-10-357-930-24529
17	795.8	77.5	1162	20	US-10-357-930-24533
18	795.8	77.5	1162	20	US-10-357-930-24840
19	795.8	77.5	1162	20	US-10-357-930-25151
20	795.8	77.5	1162	20	US-10-357-930-27359
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22	619	60.3	924	20	US-10-357-930-25081
23	589	57.4	124933	22	US-10-737-082-97
24	589	57.4	124933	22	US-10-765-780-97
25	497.2	48.4	1316	20	US-10-357-930-25082
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27	471.6	45.9	486	20	US-10-357-930-25002
28	450.8	43.9	825	16	US-10-340-536-29
29	446.8	43.5	784	20	US-10-357-930-21887
30	444	43.2	511	9	US-09-759-143-72
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ALIGNMENTS

RESULT 1
US-10-205-823-404
; Sequence 404, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John B.
; APPLICANT: Endge, Wilson O.
; APPLICANT: Gannavathu, Manjula
; APPLICANT: Gordatcheva, Bella
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Kamatkar, Shubhangt
; APPLICANT: Monsey, Angela M.
; APPLICANT: Glatt, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Anderson, Duetin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/10/205,823
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12

PRIOR APPLICATION NUMBER: 60/362,158
PRIOR FILING DATE: 2002-03-05
NUMBER OF SEQ ID NOS: 455
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 404
LENGTH: 1027
TYPE: DNA
ORGANISM: Homo sapiens
US-10-205-823-404

Query Match 99.8%; Score 1025.4; DB 15; Length 1027;
Best Local Similarity 99.9%; Pred. No. 4.5e-294;
Matches 1026; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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RESULT 2
US-10-756-149-2859
Sequence 2859, Application US/10756149
Publication No. US20050181375A1
GENERAL INFORMATION:
APPLICANT: Aziz, Natasha
TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
FILE REFERENCE: file
CURRENT APPLICATION NUMBER: US/10/756,149
CURRENT FILING DATE: 2004-01-12
NUMBER OF SEQ ID NOS: 5818
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2859
LENGTH: 1027
TYPE: DNA
ORGANISM: Homo Sapiens
US-10-756-149-2859

Query Match 99.8%; Score 1025.4; DB 22; Length 1027;
Best Local Similarity 99.9%; Pred. No. 4.5e-294;
Matches 1026; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY	637	CGTC	640	
Db	1063	CGTC	1066	

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RESULT 2
5260223-3
; Patent No. 5260223
; APPLICANT: BRENNER, MICHAEL B.; STROMINGER, JACK L.; SEIDMAN,
; JOHN G.; IP: STEPHEN H.; KRANGEL, MICHAEL S.
; TITLE OF INVENTION: METHODS FOR DETECTION OF HUMAN GAMMA
; T CELL RECEPTOR
; NUMBER OF SEQUENCES: 4
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/187,698
; FILING DATE: 29-APR-1986
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 115,256
; FILING DATE: 29-OCT-1987
; APPLICATION NUMBER: 16,252
; FILING DATE: 19-FEB-1987
; APPLICATION NUMBER: 883,100
; FILING DATE: 03-JUL-1986
; SEQ ID NO:3
; LENGTH: 1080
; 5260223-3

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							1
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QY	325	ATCGCAGACATGAATATATAAAGCGAGTTGATCAAGAAATTATCTTCTCCAAATA	384				

Db	703	ATCGTCAGACATGAGAAATTAATAAAAAAGGAATTGATCAAGAAATTATCTTGGCTCCAAATA	762
Qy	385	AAGAC-----	GGATGTC 396
Db	763	AAGACAGATGTCACCAAGTGGATCCAAATACATTAATTCAMAGATGCAAAATATATGTC	822
Qy	397	ATCCAAATGATGCCAAAGACAAATTGTTCAAAAGATGCAAAATGATATACACTACTGCTGCAG	456
Db	823	ATCCAAATGATGCCAAAGACAAATTGTTCCAAAGATGCAAAATGATATACACTACTGCTGCAG	882
Qy	457	CTCAAAACACCTCTGCATATTACATGTACCTCCTCCTCCTCCCAAGAGTGTGCTAT	516
Db	883	CTCAGAAACACTCTGCATATTACACGTACCTCCTCCTGCTCCTCAAGAGTGTGCTAT	942
Qy	517	TTTGCCATCATCATCCTGCTGTGTGTTAGAAAGACGCTTTCTGCTGCATATGAGAGAAA	576
Db	943	TTTGCCATCATCATCCTGCTGTGTGTTAGAAAGACTGCTTTCTGCTGCATATGAGAGAAA	1002
Qy	577	TCATTAACGAGCGGTGGCAACAGAGGCCACTTTTCCATCCGTTATTGTCCTCAGAG	636
Db	1003	TCATTAACGAGCGGTGGCAACAGAGGCCACTTTTCCATCCGTTATTGTCCTCAGAG	1063
Qy	637	CGTC 640	
Db	1063	CGTC 1066	

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Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 15, 2005, 15:47:50 ; Search time 3341 Seconds
(without alignments)
11700.690 Million cell updates/sec

Title: US-10-031-158-13

Perfect score: 1027

Sequence: 1 gggcagaagctggcgcaaaa.....attcaaaaatgaaagct 1027

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

EST:
1: gb_esc1:
2: gb_esc2:
3: gb_hic:
4: gb_esc3:
5: gb_esc4:
6: gb_esc5:
7: gb_esc6:
8: gb_gsa1:
9: gb_gsa2:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	length	ID	Description
1	963.4	93.8	3533	3	BC030554 Homo sapi
2	879.2	85.6	1510	3	BC017861 Homo sapi
3	840.8	81.9	1757	3	BC039116 Homo sapi
4	836.2	81.4	914	5	BQ934484 AGENCOURT
5	634.4	61.8	821	2	BF679123 602153390
6	627.8	61.1	997	2	BF678971 602153608
7	618.6	60.2	636	1	A1972955 wt45g05.x
8	613.8	59.8	638	1	A1685999 tC91804.x
9	612.4	59.6	902	2	BF674539 602137811
10	603.6	58.8	959	7	CN645427 ILIUMIGEN
11	590.2	57.5	703	4	BG217853 RST37574
12	589.6	57.4	629	1	A1768834 wJ03h04.x
13	584	56.9	700	6	CA449324 UT-H-E11-
14	580.4	56.5	582	2	BE326754 ht64405.x
15	578.8	56.4	613	4	BI905966 603062856
16	571.4	55.6	719	2	BF681238 602155502
17	566.2	55.1	670	2	BF677916 602084736
18	564	54.9	789	5	BUL199143 DCBCIA08
19	559.4	54.5	623	2	BF679165 602153737
20	556.8	54.2	1058	4	BM544213 AGENCOURT
21	554.6	54.0	881	2	BF677648 602085529
22	551	53.7	849	2	BF679284 602153477
23	547.6	53.3	701	9	AG175832 Pan trogl
24	547.2	53.3	803	2	BF680840 602156088

25	542	52.8	857	2	BF674457	BF674457 602137231
26	538.6	52.4	861	2	BF681385	BF681385 602156579
27	532.4	51.8	665	1	AA569813	AA569813 nm46c02.s
28	530.8	51.7	600	1	AI244217	AI244217 qj86c05.x
29	517.6	50.4	1055	4	BF644804	BF644804 60228596
30	491.8	47.9	927	2	BF679476	BF679476 602153280
31	490.4	47.8	503	1	AI253507	AI253507 aq3c611.x
32	490	47.6	525	5	BM112931	BM112931 BX112931
33	489.2	47.6	572	2	BF370026	BF370026 MR3-FN00
34	488.4	47.6	513	1	AI823897	AI823897 wj28e10.x
35	466	45.4	479	2	AM575113	AM575113 UI-HF-BKO
36	448.6	43.7	529	1	AA508306	AA508306 C933h07.s
37	447.8	43.6	596	1	AV715641	AV715641 AV715641
38	435.6	42.4	442	1	AI178234	AI178234 a842h05.x
39	434.8	42.3	497	1	AA654656	AA654656 nc76c02.s
40	430	41.9	870	2	BF678129	BF678129 602085181
41	429.2	41.8	512	1	AA657507	AA657507 nc64g07.s
42	428	41.7	460	2	BE772783	BE772783 RCL-FT013
43	427	41.6	681	1	AV714756	AV714756 AV714756
44	418.8	40.8	865	1	AI557112	AI557112 PT2.1.13
45	417	40.6	523	2	BF675605	BF675605 602083495

ALIGNMENTS

RESULT 1
BC030554
LOCUS
DEFINITION Homo sapiens, similar to T cell receptor gamma locus, clone IMAGE:521435, mRNA.
ACCESSION BC030554
VERSION BC030554.1 GI:20988582
KEYWORDS HTC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 3533)
AUTHORS Strausberg, R.
TITLES Direct Submission
JOURNAL Submitted (07-MAY-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA

REMARK
COMMENT NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
Sequencing Center (NISC),
Gaithersburg, Maryland;
Web site: <http://www.nisc.nih.gov/>
Contact: nisc.mgc@nsl.nih.gov

Akher, N., Ayala, K., Beckstrom-Sternberg, S.M., Benjamin, B., Blakesley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooks, S., Dietrich, N.L., Grant, S., Guan, X., Gupta, J., Haghighi, P., Hansen, N., Ho, S.-L., Karlins, E., Latic, P., Legaspi, R., Maduro, Q.L., Masello, C., Masker, B., Mastrian, S.D., McCloskey, J.C., McDowell, J., Pearson, R., Stanciroop, S., Thomas, P.J., Touchman, J.W., Tsurugan, C., Vogt, J.L., Walker, M.A., Wecherby, K.D., Wiggins, L., Young, A., Zhang, L.-H., and Green, E.D.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: <http://image.llnl.gov>
Series: IRAX Library: 64 Row: k Column: 18
This clone has the following problem: frame shifted.

FEATURES
source
1..3533
/organism="Homo sapiens"
/mol_type="mRNA"

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 15, 2005, 15:44:35 ; Search time 598 seconds
(without alignments)
10166.512 Million cell updates/sec

Title: US-10-031-158-13
Perfect score: 1027
Sequence: 1 ggcgaagatggtggcgaataa.....attcaaaaatgaaagct 1027

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N Geneseq_16Dec04:*
1: geneseqn1980s:*
2: geneseqn1990s:*
3: geneseqn2000s:*
4: geneseqn2001s:*
5: geneseqn2001bs:*
6: geneseqn2002s:*
7: geneseqn2002bs:*
8: geneseqn2003s:*
9: geneseqn2003bs:*
10: geneseqn2003cs:*
11: geneseqn2003ds:*
12: geneseqn2004s:*
13: geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1025.4	99.8	1027	4	AAFS6401 Human TCR
2	1025.4	99.8	1027	10	ADB75580 Prostate
3	1025.4	99.8	1027	13	ADP54862 Human PRO
4	1012.2	98.6	1395	12	ADL06443 Human tum
5	966.6	94.1	1799	6	ABZ35381 Human gen
6	944	91.9	1418	6	ADJ38828 Human PSN
7	913.4	88.9	2658	10	ADBO8798 Novel DNA
8	906	88.2	1155	3	AAFI5623 Human pro
9	904	88.0	1560	10	ADBO6987 Novel cod
10	900.6	87.7	1421	6	AB165007 Lung canc
11	900.6	87.7	1421	13	ADP65880 Human pro
12	900.6	87.7	1421	13	ADP66783 Human pro
13	836.4	81.4	1586	6	ABK64529 Human ben
14	836.4	81.4	1586	13	ADP54939 Human PRO
15	833.6	81.2	2658	10	ADBO8798 Novel DNA
16	820	79.8	1046	12	ADP10449 Reference
17	795.8	77.5	1162	5	ABV27727 Human pro
18	795.8	77.5	1162	5	ABV24153 Human pro
19	795.8	77.5	1162	5	ABV24540 Human pro
20	795.8	77.5	1162	5	ABV25162 Human pro

C 21	795.8	77.5	1162	5	ABV21526 Human pro
C 22	795.8	77.5	1162	5	ABV27345 Human pro
C 23	795.8	77.5	1162	5	ABV24544 Human pro
C 24	795.8	77.5	1162	5	ABV24851 Human pro
C 25	619	60.3	924	5	ABV25092 Human pro
C 26	601	58.5	786	13	ADP55163 Human PRO
C 27	521.2	50.7	1080	2	AAQ37617 TCR gamma
C 28	514.8	50.1	1080	1	AAQ91698 Sequence
C 29	497.2	48.4	1316	5	ABV26485 Human pro
C 30	497.2	48.4	1316	5	ABV25093 Human pro
C 31	471.6	45.9	486	5	ABV25013 Human pro
C 32	450.8	43.9	825	2	AAQ66888 Human Lym
C 33	450.8	43.9	825	9	ACF35988 Human T c
C 34	446.8	43.5	784	5	ABV21896 Human pro
C 35	444	43.2	511	2	AAV58549 Prostate
C 36	444	43.2	511	2	AAV61291 CDNA sequ
C 37	444	43.2	511	3	AAAO6312 Human imm
C 38	444	43.2	511	3	ABV71217 Human pro
C 39	444	43.2	511	4	AAH93428 Human pro
C 40	444	43.2	511	4	AAH63520 Human pro
C 41	444	43.2	511	4	AAH02493 Prostate
C 42	444	43.2	511	4	AAH84742 Human pro
C 43	444	43.2	511	5	ACA59329 Prostate
C 44	444	43.2	511	5	AAH10071 Human pro
C 45	444	43.2	511	6	AB194892 Human lA-

ALIGNMENTS

RESULT 1:
AAFS6401
ID AAFS6401 standard; cDNA, 1027 BP.

12-APR-2001 (first entry)

Human TCRgamma alternate reading frame protein coding sequence.

Human; TRAP; prostate cancer; breast cancer; immunotherapy;

T cell receptor gamma alternate reading frame protein; TCRgamma; ss.

OS Homo sapiens.

PN MO200104309-A1.

PD 18-JAN-2001.

PF 12-JUL-2000; 2000WO-US019039.

PR 13-JUL-1999; 99US-0143560P.

PR 01-OCT-1999; 99US-0157471P.

(USSH) US DEPT HEALTH & HUMAN SERVICES.

Paestan I, Essand M, Lee B, Vasmatzis G, Wolfgang C;

WPI; 2001-081050/09.

P-PSDB; AAB66399; AAB66400.

Isolated T-cell receptor gamma alternate reading frame protein useful for diagnosing and raising an immune response to prostate cancer and breast cancer.

Example 1; Fig 1; 85pp; English.

The present invention provides the protein and coding sequences of the human T cell receptor alternate reading frame protein (TRAP). This protein is expressed in prostate and breast cancer cells at higher levels than normal and so can be used in the immunotherapy of these cancers, as well as their detection and prevention

Sequence 1027 BP; 307 A; 232 C; 200 G; 288 T; 0 U; 0 Other;

Query Match	99.8%	Score 1025.4;	DB 4;	Length 1027;
Best Local Similarity	99.9%	Pred. No. 2.5e-290;		
Matches 1026;	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0;

Qy	1	GGGCAAGAGTGGGCAAAAAAATCAAGTATTTGGTCCCGGAAACAAGCTTATCTTACA	60
Db	1	GGGCAAGAGTGGGCAAAAAAATCAAGTATTTGGTCCCGGAAACAAGCTTATCTTACA	60
Qy	61	GATTAACAACCTTGATGACAGATGTTTCCCCAGGCCACTATTTTCTTCCATATGCT	120
Db	61	GATTAACAACCTTGATGACAGATGTTTCCCCAGGCCACTATTTTCTTCCATATGCT	120
Qy	121	GAACAACAAGCTCCAGAAGGCTGAAACATACCTTTGTCTTCTTGAAGAAATTTTCCCTGAT	180
Db	121	GAACAACAAGCTCCAGAAGGCTGAAACATACCTTTGTCTTCTTGAAGAAATTTTCCCTGAT	180
Qy	181	GTTATTAAGATACATTGGAGAGAAAAGAAAGAACACACGATTTCTGGATCCGAGAGGCG	240
Db	181	GTTATTAAGATACATTGGAGAGAAAAGAAAGAACACACGATTTCTGGATCCGAGAGGCG	240
Qy	241	AACACCATGAAGACTTAACGACACATACATGAAATTTAGCTGGTTAAAGGTGCAGAAAG	300
Db	241	AACACCATGAAGACTTAACGACACATACATGAAATTTAGCTGGTTAAAGGTGCAGAAAG	300
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Db	301	TCACCTGGACAAAGAACACAGATGTAATGCTCAGACATGAGATATATAAAAACGAGTTGAT	360
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Qy	901	TTCTTTATCAGATTAAGCTCCGAGAGGCTTTCAATTTTACAGCCCTAAGAGACTCT	960
Db	901	TTCTTTATCAGATTAAGCTCCGAGAGGCTTTCAATTTTACAGCCCTAAGAGACTCT	960
Qy	961	TTGCTAGTGAATTAATGATGATGTTTTTCCGTATTAAGCAAAATTAATTTAAAAAATG	1020
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RESULT 2
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 ID ADB75580 standard; cDNA, 1027 BP.
 AC ADB75580;
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 DT 04-DEC-2003 (first entry)
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 KW Prostate; cancer; cytostatic; gene therapy; marker; ss.
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 OS Homo sapiens.
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 PN W02003009814-A2.
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 PD 06-FEB-2003.
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 PF 25-JUL-2002; 2002WO-US023913.
 XX
 PR 25-JUL-2001; 2001US-0307982P.
 PR 22-AUG-2001; 2001US-0314356P.
 PR 25-SEP-2001; 2001US-0325020P.
 PR 12-DEC-2001; 2001US-0341746P.
 PR 05-MAR-2002; 2002US-0362158P.
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 PI Schlegel R, Monahan JE, Endege WO, Gannavarapu M, Gorbatccheva B,
 PI Hoerh S, Kamathkar S, Wonsey AM, Glatk K, Zhao X, Anderson D;
 PI
 DR WPI; 2003-248033/24.
 XX
 PT New nucleic acid molecule, useful for diagnosing or treating prostate
 PT cancer.
 PS
 PS Disclosure; SEQ ID NO 404; 99pp; English.
 XX
 CC The invention relates to newly discovered cancer markers associated with
 CC the cancerous state of prostate cells. Also disclosed is a method of
 CC assessing whether a patient is afflicted with prostate cancer. The method
 CC of the invention involves assessing whether a patient is afflicted with
 CC prostate cancer by comparing the level of expression of a marker in a
 CC patient sample and the normal level of expression of the marker in a
 CC control non-prostate cancer sample, where a significant increase in the
 CC level of expression of the marker in the patient sample and the normal
 CC level indicates that the patient is afflicted with prostate cancer.
 CC Nucleic acids of the invention are useful for diagnosing or treating
 CC prostate cancer, and may be useful in gene therapy. Sequences given in
 CC A0875177-A0875631 represent marker cDNA and proteins. Note: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format directly from WIPO at
 CC http://wipo.int/pub/published_pct_sequences.

Query Match	99.8%	Score 1025.4;	DB 10;	Length 1027;
Best Local Similarity	99.9%	Pred. No. 2.5e-290;		
Matches 1026; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

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Db	61	GATAAACAATTGATGACGATGTTTCCCCCAAGCCCACTATTTTCTTCCTCAATTGCT	120

GenCore version 5.1.6
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OM nucleic - nucleic search, using bw model

Run on: October 15, 2005, 15:46:50 ; Search time 4554 Seconds
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Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues
Total number of hits satisfying chosen parameters: 9416466

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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12: gb_ey:*
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Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1007.2	98.1	1054	9	BC062761 Homo sapi
5	982.4	95.7	1530	9	HU072387 Homo sapi
6	971.4	94.6	1470	9	BC072387 Homo sapi
7	939.6	91.5	958	9	HU072387 Homo sapi
8	902.2	87.8	1655	9	BC039725 Homo sapi
9	900.6	87.7	1421	6	AX332835 Sequence
10	900.6	87.7	1421	9	M13231 Human T-cell
11	875.8	85.3	1013	9	HU072387 Homo sapi
12	863.6	84.1	1402	9	M27331 Homo sapien
13	855.8	83.3	1003	9	M27332 Homo sapien
14	836.4	81.4	1586	9	M27332 Homo sapien
15	820	79.8	1046	9	M17323 Homo sapien
16	820	79.8	1046	11	G31759 Homo sapien
17	795.8	77.5	1162	6	CQ489650 Sequence
18	795.8	77.5	1162	6	CQ492275 Sequence
19	795.8	77.5	1162	6	CQ492662 Sequence

C 20	795.8	77.5	1162	6	CQ492666 Sequence
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C 22	795.8	77.5	1162	6	CQ493284 Sequence
C 23	795.8	77.5	1162	6	CQ495492 Sequence
C 24	795.8	77.5	1162	6	CQ495873 Sequence
C 25	731.8	71.3	757	9	HU072387 Homo sapien
C 26	619	60.3	924	6	CQ493214 Sequence
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C 28	589	57.4	847	9	M14998 Homo sapien
C 29	589	57.4	140691	9	AF159056 Homo sapi
C 30	589	57.4	171816	9	AC006033 Homo sapi
C 31	579.6	56.4	586	9	HU072387 Homo sapi
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C 33	576.6	56.1	66558	2	AC130306 Homo sapi
C 34	575.6	55.0	1041	9	AY190027 Macaca mu
C 35	521.2	50.7	1080	9	HSCRCR
C 36	514.8	50.1	1080	6	AR364341 Sequence
C 37	497.2	48.4	1316	6	CQ493215 Sequence
C 38	497.2	48.4	1316	6	CQ494607 Sequence
C 39	471.6	45.9	486	6	CQ493135 Sequence
C 40	471.6	45.9	600	9	HU072387 Homo sapien
C 41	450.8	43.9	825	6	HSCRCR
C 42	450.8	43.9	825	6	HSCRCR
C 43	446.8	43.5	784	6	CQ490020 Sequence
C 44	444	43.2	511	6	BD241985 Compound
C 45	444	43.2	511	6	AR237168 Sequence

ALIGNMENTS

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LOCUS: AX074415
DEFINITION: Sequence 13 from Patent WO0104309.
ACCESSION: AX074415
VERSION: AX074415.1 GI:12710553
KEYWORDS:
SOURCE: Homo sapiens (human)
ORGANISM: Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE
AUTHORS: Pastan, I., Basand, M., Lee, B., Vasmatzis, G. and Wolfgang, C.
TITLE: T-cell receptor_g(g) alternate reading frame protein, (tarp) and
use thereof
JOURNAL: Patent; WO 0104309-A 13 18-JAN-2001;
UNITED STATES GOVERNMENT (US)

FEATURES
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ORIGIN

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 complete cds.
 ACCESSION AF151103
 VERSION AF151103.1 GI:5758136
 KEYWORDS

SOURCE
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 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE

1 (bases 1 to 1027)
 Essand,M., Vasmatazis,G., Brinkmann,U., Dury,P., Lee,B. and
 Pastan,I.
 High expression of a specific T-cell receptor gamma transcript in
 epithelial cells of the prostate
 Proc. Natl. Acad. Sci. U.S.A. 96 (16), 9287-9292 (1999)

JOURNAL MEDLINE
 99362750
 10430935
 2 (bases 1 to 1027)
 Wolfgang,C.D., Essand,M., Vincent,J.J., Lee,B. and Pastan,I.
 TARP: a nuclear protein expressed in prostate and breast cancer
 cells derived from an alternate reading frame of the T cell
 receptor gamma chain locus
 Proc. Natl. Acad. Sci. U.S.A. 97 (17), 9437-9442 (2000)

REFERENCE

10931945
 3 (bases 1 to 1027)
 Essand,M., Vasmatazis,G., Brinkmann,U., Dury,P., Lee,B. and
 Pastan,I.
 Direct Submission
 Submitted (13-MAY-1999) Division of Basic Sciences, Laboratory of
 Molecular Biology, National Institutes of Health, National Cancer
 Institute, 37 Convent Drive, Bethesda, MD 20892, USA

FEATURES

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 Best Local Similarity 99.9%; Pred. No. 1.5e-260;

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

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Total number of hits satisfying chosen parameters: 17531824

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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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SUMMARIES

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4	307	100.0	539	US-10-357-930-28636	Sequence 28636, A
5	307	100.0	825	US-10-340-536-29	Sequence 29, A
6	307	100.0	1027	US-10-205-823-404	Sequence 404, A
7	307	100.0	1027	US-10-756-159-2859	Sequence 2859, A
8	307	100.0	1027	US-11-051-454-404	Sequence 404, A
9	307	100.0	1316	US-10-357-930-25082	Sequence 25082, A
10	307	100.0	1316	US-10-357-930-26474	Sequence 26474, A
11	307	100.0	1395	US-10-643-795A-23	Sequence 23, A
12	307	100.0	1395	US-10-948-518-23	Sequence 23, A
13	307	100.0	1418	US-09-957-708-16	Sequence 16, A
14	307	100.0	124933	US-10-737-082-97	Sequence 97, A
15	307	100.0	124933	US-10-765-790-97	Sequence 97, A
16	304	99.0	486	US-10-357-930-25002	Sequence 25002, A
17	302	98.4	316	US-09-864-761-31943	Sequence 31943, A
18	298	97.1	569	US-10-357-930-43494	Sequence 43494, A
19	294	95.8	1421	US-09-954-456-317	Sequence 317, A
20	294	95.8	1421	US-10-843-641A-3344	Sequence 3344, A
21	294	95.8	1799	US-10-101-510-492	Sequence 492, A
22	284	92.5	1586	US-09-960-706-676	Sequence 676, A
23	284	92.5	1586	US-09-873-319-424	Sequence 424, A
24	284	92.5	1586	US-10-847-918-14	Sequence 14, A
25	259	84.4	533	US-10-357-930-37875	Sequence 37875, A
26	245	78.8	1155	US-09-925-300-58	Sequence 58, A
27	240	78.2	1022	US-10-357-930-23803	Sequence 23803, A
28	240	78.2	1022	US-10-357-930-23975	Sequence 23975, A
29	240	78.2	1022	US-10-357-930-23980	Sequence 23980, A
30	240	78.2	1022	US-10-357-930-24023	Sequence 24023, A
31	240	78.2	1022	US-10-357-930-24061	Sequence 24061, A
32	240	78.2	1022	US-10-357-930-24062	Sequence 24062, A
33	240	78.2	1022	US-10-357-930-24097	Sequence 24097, A
34	240	78.2	1022	US-10-357-930-24100	Sequence 24100, A
35	240	78.2	1022	US-10-357-930-24113	Sequence 24113, A
36	240	78.2	1022	US-10-357-930-25188	Sequence 25188, A
37	240	78.2	1022	US-10-357-930-25812	Sequence 25812, A
38	240	78.2	1022	US-10-357-930-29708	Sequence 29708, A
39	240	78.2	1022	US-10-357-930-29892	Sequence 29892, A
40	240	78.2	1022	US-10-357-930-29936	Sequence 29936, A
41	240	78.2	1022	US-10-357-930-29971	Sequence 29971, A
42	240	78.2	1022	US-10-357-930-29972	Sequence 29972, A
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44	227	72.9	475	US-10-357-930-39216	Sequence 39216, A
45	216	70.4	401	US-10-357-930-13495	Sequence 13495, A

ALIGNMENTS

RESULT 1
US-09-864-761-15428
; Sequence 15428, Application US/09864761
; Patent No. US20020048763A1
GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecomic-X-1
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04


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; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 15428
; LENGTH: 470
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AF159056.1
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.2
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.1
US-09-864-761-15428

Alignment Scores:
Pred. No.: 9,576-36 Length: 470
Score: 307.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-10-031-158-14 (1-58) x US-09-864-761-15428 (1-470)
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Db 203 ATGCAGATGTTCCCAAGCCCACTATTCTTCCTTCATTCGTAACCAAGCTCC 262
Qy 21 ArgArgLeuGlnHisThrPheValPheLeuArganPheSerLeuMetLeuLysArgTyr 40
Db 263 AGAAGGCTGGAAACAACATCTTGTCTTGTGAGAAATTTTCCCTGATGTTATTAAAGATAC 322
Qy 41 IleGlyLysLysArgArgAlaThrArgPheTTPAAPPProArgArgGlyThrPro 58
Db 323 ATTGGCAAGAAAGAAAGACACACGATTTCTGATCCAGAGGGAACACCA 376

RESULT 2
US-09-864-761-15438
; Sequence 15438, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
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; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wenheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aeomica-X-1
; CURRENT FILING DATE: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
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; PRIOR APPLICATION NUMBER: PCT/US01/00669
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; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 15438
; LENGTH: 477
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AF159056.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.4
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.3
US-09-864-761-15438

Alignment Scores:
Pred. No.: 9,766-36 Length: 477
Score: 307.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

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Db 212 ATGCAGATGTTCCCAAGCCCACTATTCTTCCTTCATTCGTAACCAAGCTCC 271
Qy 21 ArgArgLeuGlnHisThrPheValPheLeuArganPheSerLeuMetLeuLysArgTyr 40
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GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus.p2n model

Run on: October 16, 2005, 06:07:46 ; Search time 311 Seconds

(without alignments)
709.652 Million cell updates/sec

Title: US-10-031-158-14

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 34239544 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=EST -QFMT=faetap -SUFRTX=p2n.rst -MINMATCH=0.1 -LOOPEXT=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=1 -MATRIX=bl0sum62 -TRANS=human40.cdi -LIST=45
-DOCALLIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=us10031158 @CCN 1.1 5180 @runat_14102005_135739_18853 -NCPU=6 -ICPU=3
-NO_WMAP -LANG=OTHER -NEG_SCORES=0 -WAIT -DSBLOCK=100 -LONGLOC
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :
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2: gb_est2:*
3: gb_hic:*
4: gb_est3:*
5: gb_est4:*
6: gb_est5:*
7: gb_est6:*
8: gb_g881:*
9: gb_g882:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	307	100.0	427	2	BF679325 602153825
2	307	100.0	427	2	BF679325 602153825
3	307	100.0	510	1	AV716204 AV716204
4	307	100.0	596	1	AV715641 AV715641
5	307	100.0	603	1	AV714189 AV714189
6	307	100.0	803	1	AV756492 AV756492
7	307	100.0	818	4	BI771070 603059635
8	307	100.0	821	2	BF679123 602153390
9	307	100.0	865	2	BF681385 602156579
					AI557112 PT2.1_13_

10	307	100.0	881	2	BF677648 602085529
11	307	100.0	902	2	BF674593 602137811
12	307	100.0	927	2	BF679476 602153280
13	307	100.0	1058	4	BM544213 AGENCOURT
14	307	100.0	3533	3	BC030554 Homo sapi
15	304	99.0	789	5	BU199143 DCBCLA08
16	294	95.8	653	3	BE974171 601680522
17	294	95.8	1005	5	BM919380 AGENCOURT
18	294	95.8	1757	3	BC039116 Homo sapi
19	290	94.5	434	2	BF747659 QV2-BP061
20	290	94.5	497	2	AM087486 X267C01.X
21	290	94.5	681	1	AV714756 AV714756
22	290	94.5	1510	1	BC017861 Homo sapi
23	289	94.1	1055	4	BF649904 602268596
24	288	93.8	523	2	BF656605 602083495
25	284	92.5	362	1	AI758378 ty68c12.X
26	278	90.6	719	2	BF681238 602155502
27	270	87.9	854	2	BF681029 602155433
28	268	87.3	629	2	BF679165 602153737
29	267	87.0	803	2	BF680840 602156088
30	262	85.3	772	4	BI836020 603084004
31	259	84.4	808	2	BF673289 602135139
32	253	82.4	857	2	BF674457 602137231
33	251	81.8	849	2	BF679284 602153477
34	248	80.8	995	7	CO647648 ILLUMINIGEN
35	245	79.8	663	6	CB553506 MMSPO044
36	227	73.9	870	2	BF678129 602085181
37	226	73.6	637	6	CB551454 MMSPO013
38	224	72.0	670	2	BF677916 602084736
39	221	72.0	827	4	BG535408 602563069
40	209	68.1	572	2	BF370026 NR3-FN000
41	204.5	66.6	864	4	BI834993 603088885
42	203	65.1	552	5	BP164784 BP164784
43	200	65.1	572	5	BP162849 BP162849
44	200	65.1	888	5	BP162346 BP162346
45	194	63.2	744	7	CR791490 DRFZp468F

ALIGNMENTS

RESULT 1
LOCUS BF679325 427 bp mRNA linear EST 21-DEC-2000
DEFINITION 602153825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294566 5',
LOCUS mRNA sequence.

ACCESSION BF679325
VERSION BF679325.1 GI:11953220
KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

AUTHORS NIH-MGC http://mgs.nci.nih.gov/.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contract: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: CLONTECH Laboratories, Inc.

cDNA Library Preparation: CLONTECH Laboratories, Inc.

DNA sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: L1CM1144 row: b column: 07

High quality sequence stop: 427.

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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4294566"

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/1ab_host="DH10B (71 phage-resistant)"
/clone_lib="NH_MGC_83"
/notes="Organ: Prostate; Vector: pDNR-LTB (Clontech);
Site 1: SfiI (ggcgccgcccgc); Site 2: SfiI
(ggcattatggcc); 5' and 3' adaptors were used in cloning
as follows: 5' adaptor sequence: 5'-CACGGCCATTATGGCC-3'
and 3' adaptor sequence:
5'-ATTCTAGAGCCGAGCGCGCCGACATG-dT(30)BN-3' (where B = A,
C, or G and N = A, C, G, or T). Average insert size 1.4
kb (range 0.5-4.0 kb). 14/15 colonies contained inserts
by PCR. This library was enriched for full-length clones
and was constructed by Clontech Laboratories (Palo Alto,
CA)."

ORIGIN
Alignment Scores:
Pred. No.: 1,22e-30 Length: 427
Score: 307.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0
DB: 2

US-10-031-158-14 (1-58) x BF679325 (1-427)

QY 1 MetGlnMetPheProSerProLeuPhePheLeuGlnLeuLeuGlnSerSer 20
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Db 126 AGAAGGCTGGAACATACCTTGTCTCTTGAGAAATTTTCCCTGATGTTATTAAGATAC 185

QY 41 IlegLYLySLyARGARGAlaThrArgPheTyrPAsPProArgArgGlyThrPro 58
Db 186 ATTGCGAAGAAAGAGAGACACATTTCTGCAATCCACAGAGGGAACACCA 239

RESULT 2
AV716204 510 bp mRNA linear EST 11-OCT-2000
LOCUS AV716204 DCB Homo sapiens cDNA clone DCBAMG08 5', mRNA sequence.
DEFINITION AV716204
ACCESSION AV716204
VERSION AV716204.1 GI:10797721
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 510)
Xu,X., Gu,J., Liu,F., Qu,J., Zhao,M., Li,Y., Huang,Q., Zhou,J.,
Song,H., Yang,Y., Yang,Y., Gao,G., Xiao,H., Li,N., Qian,B., Gao,X.,
Cheng,Z., Xu,S., Gu,W., Tu,Y., Jia,J., Fu,G., Ren,S., Zhong,M.,
Lu,G., Cheng,Z., and Han,Z.
Homo sapiens cDNA DCB clones
Unpublished (2000)
Contact: Zeguang Han
Chinese National Human Genome Center at Shanghai
351 Guo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai
201203, P. R. China
Tel: 86-21-50801919 (ex.45)
Fax: 86-21-50801922
Email: hanzg@chgc.sh.cn
This clone is available at CHGC in Shanghai.
Location/Qualifiers
1..510
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="DCBAMG08"
/cell_type="dendritic cells"
/dev_stage="mature"
/lab_host="BM25.8"
/clone_lib="DCB"

FEATURES
source
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="DCBAMG08"
/cell_type="dendritic cells"
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Alignment Scores:
Pred. No.: 1,22e-30 Length: 427
Score: 307.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0
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US-10-031-158-14 (1-58) x BF679325 (1-427)

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/notes="Vector: pTribEx2, Site_1: sfiIA, Site_2: sfiIB"

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Score: 307.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0
DB: 1

US-10-031-158-14 (1-58) x AV716204 (1-510)

QY 1 MetGlnMetPheProSerProLeuPhePhePheLeuGlnLeuLeuGlnSerSer 20
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QY 21 ARGARGLeuGlnHISrPheValPheLeuArgAnPheSerLeuMetLeuLeuArgTyr 40
Db 219 AGAAGGCTGGAACATACCTTGTCTCTTGAGAAATTTTCCCTGATGTTATTAAGATAC 278

QY 41 IlegLYLySLyARGARGAlaThrArgPheTyrPAsPProArgArgGlyThrPro 58
Db 279 ATTGCGAAGAAAGAGAGACACATTTCTGCAATCCACAGAGGGAACACCA 332

RESULT 3
AV715641 596 bp mRNA linear EST 11-OCT-2000
LOCUS AV715641 DCB Homo sapiens cDNA clone DCBBSB05 5', mRNA sequence.
DEFINITION AV715641
ACCESSION AV715641
VERSION AV715641.1 GI:10797158
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 596)
Xu,X., Gu,J., Liu,F., Qu,J., Zhao,M., Li,Y., Huang,Q., Zhou,J.,
Song,H., Yang,Y., Yang,Y., Gao,G., Xiao,H., Li,N., Qian,B., Gao,X.,
Cheng,Z., Xu,S., Gu,W., Tu,Y., Jia,J., Fu,G., Ren,S., Zhong,M.,
Lu,G., Cheng,Z., and Han,Z.
Homo sapiens cDNA DCB clones
Unpublished (2000)
Contact: Zeguang Han
Chinese National Human Genome Center at Shanghai
351 Guo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai
201203, P. R. China
Tel: 86-21-50801919 (ex.45)
Fax: 86-21-50801922
Email: hanzg@chgc.sh.cn
This clone is available at CHGC in Shanghai.
Location/Qualifiers
1..596
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="DCBBSB05"
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/notes="Vector: pTribEx2, Site_1: sfiIA, Site_2: sfiIB"

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/clone="DCBBSB05"
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/dev_stage="mature"
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Alignment Scores:
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Score: 307.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 0
DB: 1

US-10-031-158-14 (1-58) x AV715641 (1-596)

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GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus.p2n model

Run on: October 16, 2005, 06:00:36 ; Search time 432 Seconds
(without alignments)
794.780 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 307
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Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-DB=N_Geneseq_16Dec04 -QFMT=fastap -SUFFIX=p2n.rng -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blowsum62 -TRANS=human40.cdi
-LIST=45 -DOCCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
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-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : N_Geneseq_16Dec04:*
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8: geneseq2003as:*
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12: geneseq2004as:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	307	100.0	426	3 AAC00681	AAC00681 Human sec
2	307	100.0	470	3 AAK25982	AAK25982 Human bon
3	307	100.0	470	6 ABO51569	ABO51569 Human gen
4	307	100.0	477	4 ABA43588	ABA43588 Human bre
5	307	100.0	477	4 AAK27758	AAK27758 Human bon

C	6	307	100.0	477	6 ABO2210	ABO2210 Human gen
C	7	307	100.0	539	5 ABV28618	ABV28618 Human pro
C	8	307	100.0	539	5 ABV22791	ABV22791 Human pro
C	9	307	100.0	825	2 AAO6688	AAO6688 Human lym
C	10	307	100.0	825	2 ACF35988	ACF35988 Human T.C
C	11	307	100.0	1027	4 AAF56401	AAF56401 Human TCR
C	12	307	100.0	1027	10 ADB75580	ADB75580 Prostate
C	13	307	100.0	1027	13 ADP54862	ADP54862 Human PRO
C	14	307	100.0	1316	5 ABV24885	ABV24885 Human pro
C	15	307	100.0	1316	5 ABV25093	ABV25093 Human pro
C	16	307	100.0	1395	12 ADL06443	ADL06443 Human tum
C	17	307	100.0	1418	6 AAD38828	AAD38828 Human PSN
C	18	307	100.0	2658	10 ADE08798	ADE08798 Novel DNA
C	19	304	99.4	486	5 ABV25013	ABV25013 Human pro
C	20	302	98.4	316	4 ABA47985	ABA47985 Human bre
C	21	302	98.4	316	4 AAK40015	AAK40015 Human bon
C	22	302	98.4	316	6 ABO14101	ABO14101 Human gen
C	23	298	97.1	569	5 ABV43475	ABV43475 Human pro
C	24	294	95.8	1421	6 ABV65007	ABV65007 Lung canc
C	25	294	95.8	1421	13 ADR65880	ADR65880 Human pro
C	26	294	95.8	1421	13 ADR66783	ADR66783 Human pro
C	27	294	95.8	1560	10 ADE06987	ADE06987 Novel cod
C	28	294	95.8	1799	6 ABZ35381	ABZ35381 Human gen
C	29	290	94.5	1080	2 AAO37617	AAO37617 TCR gamma
C	30	290	94.5	2658	10 ADE08798	ADE08798 Novel DNA
C	31	284	92.5	1046	12 ADP10449	ADP10449 Reference
C	32	284	92.5	1586	6 ABE64529	ABE64529 Human ben
C	33	284	92.5	1586	13 ADP54939	ADP54939 Human PRO
C	34	279	90.9	1080	1 AAN91698	AAN91698 Sequence
C	35	264	86.0	786	13 ADP55163	ADP55163 Human PRO
C	36	259	84.4	533	5 ABV37856	ABV37856 Human pro
C	37	251	81.8	460	3 AAC04122	AAC04122 Human sec
C	38	245	79.8	1155	3 AAF15623	AAF15623 Human pro
C	39	240	78.2	1022	5 ABV29889	ABV29889 Human pro
C	40	240	78.2	1022	5 ABV24072	ABV24072 Human pro
C	41	240	78.2	1022	5 ABV24124	ABV24124 Human pro
C	42	240	78.2	1022	5 ABV25823	ABV25823 Human pro
C	43	240	78.2	1022	5 ABV24034	ABV24034 Human pro
C	44	240	78.2	1022	5 ABV23986	ABV23986 Human pro
C	45	240	78.2	1022	5 ABV23991	ABV23991 Human pro

ALIGNMENTS

RESULT 1	
ID AAC00681	standard; CDNA; 426 BP.
AC AAC00681;	
DT 06-OCT-2000	(first entry)
DE Human secreted protein 5' EST, SEQ ID NO: 679.	
XX Human, 5' EST; expressed sequence tag; secreted protein; CDNA isolation;	
KW gene therapy; chromosome mapping; ss.	
OS Homo sapiens.	
XX Homo sapiens.	
XX Homo sapiens.	
PN EP1033401-A2.	
XX EP1033401-A2.	
PD 06-SEP-2000.	
XX 06-SEP-2000.	
PP 21-FEB-2000; 2000EP-00200610.	
XX 21-FEB-2000; 2000EP-00200610.	
PR 26-FEB-1999; 99US-0122487P.	
XX 26-FEB-1999; 99US-0122487P.	
PA (GSEST) GENSEST.	
XX (GSEST) GENSEST.	
PI Dumas Mline Edwards J, Duclert A, Giordano J;	
XX WPI; 2000-500381/45.	
DR P-PSDB; AAC00681.	

XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for
 PT obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for
 PT diagnostic, forensic, gene therapy and chromosome mapping procedures.
 XX
 PS Claim 1; SEQ ID NO 679; 71pp + Sequence Listing; English.

CC The present sequence is one of a large number of 5' ESTs derived from
 CC mRNAs encoding secreted proteins. An ORF has been identified within the
 CC sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs
 CC derived from 30 different tissues. EST sequences usually correspond
 CC mainly to the 3' untranslated region (UTR) of the mRNA because they are
 CC often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
 CC well suited for isolating cDNA sequences derived from the 5' ends of
 CC mRNAs and even in those cases where longer cDNA sequences have been
 CC obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
 CC mRNAs with intact 5' ends and can therefore be used to obtain full length
 CC cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
 CC gene therapy and chromosome mapping procedures. They are used to obtain
 CC upstream regulatory sequences and to design expression and secretion
 CC vectors
 CC

SQ Sequence 426 BP; 151 A; 83 C; 88 G; 104 T; 0 U; 0 Other;

Alignment Scores:
 Pred. No.: 5.17e-34 Length: 426
 Score: 307.00 Matches: 58
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 3 Gaps: 0

US-10-031-158-14 (1-58) x AAC00681 (1-426)

Oy 1 MetGlnMetPheProSerProLeuPhePheLeuGlnLeuLeuGlnSerSer 20
 Db 94 ATGCGAGTGTTCCTCCCAAGCCCACTATTTTCTTCCTCAATGCTGAACAAAGCTCC 153
 Oy 21 ArgArgLeuGlnIuHsthrPheValPheLeuArganPheSerLeuMetLeuLeuArgTyr 40
 Db 154 AGAAGGCTGGAACATACCTTGTCTTCTTGAGAAATTTTCCCTGATGTTATTAGATAC 213
 Oy 41 IleGlyLysLysArgArgAlaThrArgPheThrPheProArgArgGlyThrPro 58
 Db 214 ATTGGCAAGAAAGAGAGCAACAGATTTGGATCCAGAGGGAACACCA 267

RESULT 2

AAK26982
 ID AAK26982 standard; DNA; 470 BP.

AC AAK26982;

DT 06-NOV-2001 (first entry)

DE Human bone marrow expressed single exon probe SEQ ID NO: 1539.

XX Human; bone marrow expressed exon; gene expression analysis; probe;
 KM microarray; cancer; leukaemia; lymphoma; myeloma; ss.

XX Homo sapiens.

XX WO200157276-A2.

PD 09-AUG-2001.

PF 30-JAN-2001; 2001WO-US000668.

PR 04-FEB-2000; 2000US-0180312P.

PR 26-MAY-2000; 2000US-0207456P.

PR 30-JUN-2000; 2000US-00608408.

PR 03-AUG-2000; 2000US-00632366.

PR 21-SEP-2000; 2000US-0234687P.

PR 27-SEP-2000; 2000US-0236359P.

PR 04-OCT-2000; 2000GB-00024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488900/53.

DR Human genome-derived single exon nucleic acid probes useful for analyzing
 PT gene expression in human bone marrow.
 XX

PS Example 4; SEQ ID NO 1539; 658bp + Sequence Listing; English.

CC The present invention provides a number of single exon nucleic acid
 CC probes which are derived from genomic sequences expressed in the human
 CC bone marrow. They can be used to measure gene expression in bone marrow
 CC samples, which may enable the improved diagnosis and treatment of cancers
 CC such as lymphoma, leukemia and myeloma. The present sequence is one of
 CC the probes of the invention
 CC

SQ Sequence 470 BP; 148 A; 102 C; 87 G; 133 T; 0 U; 0 Other;

Alignment Scores:
 Pred. No.: 5.9e-34 Length: 470
 Score: 307.00 Matches: 58
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 4 Gaps: 0

US-10-031-158-14 (1-58) x AAK26982 (1-470)

Oy 1 MetGlnMetPheProSerProLeuPhePheLeuGlnLeuLeuGlnSerSer 20
 Db 203 ATGCGAGTGTTCCTCCCAAGCCCACTATTTTCTTCCTCAATGCTGAACAAAGCTCC 262
 Oy 21 ArgArgLeuGlnIuHsthrPheValPheLeuArganPheSerLeuMetLeuLeuArgTyr 40
 Db 263 AGAAGGCTGGAACATACCTTGTCTTCTTGAGAAATTTTCCCTGATGTTATTAGATAC 322
 Oy 41 IleGlyLysLysArgArgAlaThrArgPheThrPheProArgArgGlyThrPro 58
 Db 323 ATTGGCAAGAAAGAGAGCAACAGATTTGGATCCAGAGGGAACACCA 376

RESULT 3

ABS01569
 ID ABS01569 standard; DNA; 470 BP.

AC ABS01569;

DT 19-AUG-2002 (first entry)

DE Human genome-derived single exon probe from lung SEQ ID NO 1560.

XX Human; ds; single exon probe; asthma; lung cancer; COPD; ILD;

KM chronic obstructive pulmonary disease; interstitial lung disease;
 KM familial idiopathic pulmonary fibrosis; neurofibromatosis;
 KM tuberculous sclerosis; Gaucher's disease; Niemann-Pick disease;
 KM Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemorrhoidosis;
 KM pulmonary histiocytosis; lymphangioleiomyomatosis; Karsenger syndrome;
 KM pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;
 KM primary ciliary dyskinesia; pulmonary hypertension;
 KM hyaline membrane disease.

XX Homo sapiens.

XX WO200186003-A2.

PD 15-NOV-2001.

PF 30-JAN-2001; 2001WO-US000665.

PR 04-FEB-2000; 2000US-0180312P.

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus.p2n model

Run on: October 16, 2005, 06:01:41 ; Search time 1790 Seconds
(without alignments)
1570.057 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 307
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Xgapop 10.0 , Xgapext 0.5
Xgapop 6.0 , Xgapext 7.0
Delep 6.0 , Delext 7.0

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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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13: gb_un:*
14: gb_vl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	ID	Description
1	307	100.0	410 9 HUMTCGCD1	M1996 Human T-cell
2	307	100.0	426 6 AX884816	AX884816 Sequence
3	307	100.0	426 6 BD024426	BD024426 Sequence
4	307	100.0	470 6 CQ131517	CQ131517 Sequence

5	307	100.0	470 6 CQ290455	CQ290455 Sequence
6	307	100.0	477 6 CQ132293	CQ132293 Sequence
7	307	100.0	477 6 CQ200006	CQ200006 Sequence
8	307	100.0	477 6 CQ291096	CQ291096 Sequence
9	307	100.0	539 6 CQ490917	CQ490917 Sequence
10	307	100.0	539 6 CQ496769	CQ496769 Sequence
11	307	100.0	723 6 AJ583012	AJ583012 Homo sapi
12	307	100.0	726 9 AJ583014	AJ583014 Homo sapi
13	307	100.0	825 6 I89883	I89883 Sequence 18
14	307	100.0	825 6 HSTCRGSA	X72500 H. sapiens m
15	307	100.0	958 9 HUMTCRGAD	M27334 Homo sapien
16	307	100.0	1027 6 AX074415	AX074415 Sequence
17	307	100.0	1027 9 AF151103	AF151103 Homo sapi
18	307	100.0	1054 9 BC062761	BC062761 Homo sapi
19	307	100.0	1316 6 CQ493215	CQ493215 Sequence
20	307	100.0	1316 6 CQ494607	CQ494607 Sequence
21	307	100.0	1470 9 BC072387	BC072387 Homo sapi
22	307	100.0	1530 9 HUMTCRGA	M16768 Human T-cell
23	307	100.0	1825 9 BC072396	BC072396 Homo sapi
24	307	100.0	1825 2 AC130306	AC130306 Homo sapi
25	307	100.0	140691 9 AF159056	AF159056 Homo sapi
26	307	100.0	171816 9 AC006033	AC006033 Homo sapi
27	304	99.0	400 9 HSTCRG61	X02766 Human gene
28	304	99.0	486 6 CQ493135	CQ493135 Sequence
29	302	98.4	316 6 CQ144550	CQ144550 Sequence
30	302	98.4	316 6 CQ204403	CQ204403 Sequence
31	302	98.4	316 6 CQ302987	CQ302987 Sequence
32	298	97.1	569 6 CQ511627	CQ511627 Sequence
33	294	95.8	330 9 HUMTCGCG	M15002 Human T-cell
34	294	95.8	635 9 HSTCRG54	X06776 Human tronc
35	294	95.8	720 9 HSTRCG10	X06775 Human abert
36	294	95.8	1013 9 HUMTCRGAA	M27331 Homo sapien
37	294	95.8	1160 9 HSTRCG64	X06774 Human mRNA
38	294	95.8	1402 9 HUMTCRGA	M16804 Human T-cell
39	294	95.8	1421 6 AX32835	AX32835 Sequence
40	294	95.8	1421 6 HUMTCGXH	M13231 Human T-cell
41	294	95.8	1655 9 BC039725	BC039725 Homo sapi
42	292	95.1	757 9 HUMTCGCG	M17325 Homo sapien
43	290	94.5	201 11 BV205008	BV205008 sgmm21701
44	290	94.5	300 9 HUMTCGCE	M14999 Human T-cell
45	290	94.5	330 9 HUMTCGCF	M15001 Human T-cell

ALIGNMENTS

RESULT 1	HUMTCGCD1	410 bp	DNA	linear	PRI 14-SEP-1995
LOCUS	Human T-cell receptor gamma-chain (TCRCG1) gene,				
DEFINITION	Human T-cell receptor gamma-chain (TCRCG1) gene,				
CL-region, exon 1.					
ACCESSION	M14996.1	GI:339076			
VERSION	M14996				
KEYWORDS	C-region; T cell receptor gamma-chain; T-cell receptor; germline.				
SEGMENT	1 of 3				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.				
TITLE	Leftcanc,M.P., Forster,A. and Rabbits,T.H.				
FEATURES	Genetic polymorphism and exon changes of the constant regions of the human T-cell rearranging gene gamma				
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 83 (24), 9596-9600 (1986)				
MEDLINE	87092294				
COMMENT	Original source text: Homo sapiens (clone: lambda-D19) DNA.				
PUBMED	2879283				
ENTRY REVISIONS	for [1] kindly provided by M.-P. Leftcanc,				
22-JUN-1988.					

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41.370
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/note="G00-120-408"
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205 bp upstream of BamHI site.

ORIGIN 205 bp upstream of BamHI site.

ALIGNMENT SCORES:

Pred. No.: 3.7e-30 Length: 410
Score: 307.00 Matches: 58
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 9 Gaps: 0

US-10-031-158-14 (1-58) x HUMTCCGD1 (1-410)

Qy 1 MetGlnMetPheProSerProLeuPhePheLeuGlnLeuLeuLyGlnSerSer 20

Db 53 ATGCAGATGTTTCCCAAGCCCACTATTCTTCTTCAATTGCAACAAAGCTCC 112

Qy 21 ArgArgLeuGlnIsthrPheValPheLeuArgAnPheSerLeuMetLeuLeuArgTyr 40

Db 113 AGAAGGCTGGAACATACCTTGTCTTCTTGAGAAATTTTCCCTGATGTTAAGATAC 172

Qy 41 IleGlyLySylsArgArgAlaThrArgPheTrpAspProArgArgGlyThrPro 58

Db 173 ATTGGCAAGAAAAGAGACAAACGATTCGGATCCCAAGAGGGGAAACACCA 226

RESULT 2
AX884816 426 bp DNA linear PAT 18-DEC-2003

LOCUS Sequence 679 from Patent EP1033401.

AX884816

VERSION AX884816.1 GI:40040355

KEYWORDS

ORGANISM

SOURCE

REFERENCE

AUTHORS

TITLE

JOURNAL

Genet (FR)

Location/Qualifiers

1.426

/organism="Homo sapiens"

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ORIGIN

Alignment Scores:

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Score: 307.00 Matches: 58

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 6 Gaps: 0

US-10-031-158-14 (1-58) x AX884816 (1-426)

Qy 1 MetGlnMetPheProSerProLeuPhePheLeuGlnLeuLeuLyGlnSerSer 20

Db 94 ATGCAGATGTTTCCCAAGCCCACTATTCTTCTTCAATTGCAACAAAGCTCC 153

Qy 21 ArgArgLeuGlnIsthrPheValPheLeuArgAnPheSerLeuMetLeuLeuArgTyr 40

Db 154 AGAAGGCTGGAACATACCTTGTCTTCTTGAGAAATTTTCCCGATGTTAAGATAC 213

Qy 41 IleGlyLySylsArgArgAlaThrArgPheTrpAspProArgArgGlyThrPro 58

Db 214 ATTGGCAAGAAAAGAGACAAACGATTCGGATCCCAAGAGGGGAAACACCA 267

RESULT 3

BD024426 426 bp DNA linear PAT 27-AUG-2002

LOCUS Sequence tag and encoded human protein.

BD024426

VERSION BD024426.1 GI:22565649

KEYWORDS JP 2001269182-A/672.

SOURCE Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE

AUTHORS

TITLE

JOURNAL

Genet

OS

PN JP 2001269182-A/672

PD 02-OCT-2001

PR 24-FEB-2000 JP 2000118773

PI 26-FEB-1999 US 60/122487

PI JEAN BAPTIST DUMAS MILNE EDWARDS, EIMERIC DUCLAIR, JEAN YVES

PC C12N15/09, C07K14/435, C07K16/18, C12N1/15, C12N1/19, C12N1/21, PC

C12N5/10,

PC C12P21/02, C12P21/08, C12Q1/68, G06F17/30, C12N5/00, PC

G06F15/40

CC

FH Key

FT CDS

Location/Qualifiers

1.426

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Alignment Scores:

Pred. No.: 3.86e-30 Length: 426

Score: 307.00 Matches: 58

Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0

DB: 6 Gaps: 0

US-10-031-158-14 (1-58) x BD024426 (1-426)

Qy 1 MetGlnMetPheProSerProLeuPhePheLeuGlnLeuLeuLyGlnSerSer 20

Db 94 ATGCAGATGTTTCCCAAGCCCACTATTCTTCTTCAATTGCAACAAAGCTCC 153

Qy 21 ArgArgLeuGlnIsthrPheValPheLeuArgAnPheSerLeuMetLeuLeuArgTyr 40

Db 154 AGAAGGCTGGAACATACCTTGTCTTCTTGAGAAATTTTCCCGATGTTAAGATAC 213

Qy 41 IleGlyLySylsArgArgAlaThrArgPheTrpAspProArgArgGlyThrPro 58

Db 214 ATTGGCAAGAAAAGAGACAAACGATTCGGATCCCAAGAGGGGAAACACCA 267

RESULT 4

CO131517 470 bp DNA linear PAT 21-JAN-2004

LOCUS Sequence 1539 from Patent WO0157276.

CO131517

VERSION

KEYWORDS

SOURCE

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE

AUTHORS

TITLE

JOURNAL

Genet

OS

PN JP 2001269182-A/672

PD 02-OCT-2001

PR 24-FEB-2000 JP 2000118773

PI 26-FEB-1999 US 60/122487

PI JEAN BAPTIST DUMAS MILNE EDWARDS, EIMERIC DUCLAIR, JEAN YVES

PC C12N15/09, C07K14/435, C07K16/18, C12N1/15, C12N1/19, C12N1/21, PC

C12N5/10,

PC C12P21/02, C12P21/08, C12Q1/68, G06F17/30, C12N5/00, PC

G06F15/40

CC

FH Key

FT CDS

Location/Qualifiers

1.426

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 16, 2005, 05:43:34 ; Search time 116 Seconds

(without alignments)
208.359 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 307

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Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	307	100.0	58	14	US-10-205-823-405
2	307	100.0	58	18	US-10-756-149-551
3	307	100.0	58	20	US-11-051-454-405
4	71.5	23.3	100	15	US-10-424-599-206785
5	67	21.8	81	16	US-10-425-115-189599
6	64.5	21.0	65	16	US-10-425-115-345446
7	63	20.5	86	16	US-10-437-963-186030
8	63	20.5	934	9	US-09-891-216-112
9	63	20.5	934	9	US-09-891-216-115
10	63	20.5	934	14	US-10-168-402-2
11	63	20.5	934	14	US-10-168-402-39

12	62	20.2	83	15	US-10-424-599-176153	Sequence 176153, A
13	60.5	19.7	325	15	US-10-425-114-72973	Sequence 72973, A
14	60.5	19.7	572	15	US-10-424-599-280962	Sequence 280962, A
15	60	19.5	160	16	US-10-437-963-109049	Sequence 109049, A
16	60	19.5	900	15	US-10-282-122A-68765	Sequence 68765, A
17	59	19.2	84	16	US-10-425-115-229957	Sequence 229957, A
18	59	19.2	108	16	US-10-437-963-193767	Sequence 193767, A
19	59	19.2	641	20	US-11-097-143-5949	Sequence 5949, Ap
20	59	19.2	2176	20	US-11-097-143-10950	Sequence 10950, Ap
21	58.5	19.1	128	16	US-10-425-115-315195	Sequence 315195, A
22	58.5	19.1	440	16	US-10-425-115-307562	Sequence 307562, A
23	58.5	19.1	527	15	US-10-425-114-59801	Sequence 59801, A
24	58.5	19.1	551	15	US-10-425-114-55527	Sequence 65527, A
25	58	18.9	83	15	US-10-424-599-256212	Sequence 256212, A
26	58	18.9	201	16	US-10-767-701-61188	Sequence 61188, A
27	57.5	18.7	156	16	US-10-437-963-110934	Sequence 110934, A
28	57.5	18.7	651	17	US-10-732-923-19734	Sequence 19734, A
29	57.5	18.7	673	15	US-10-369-493-14690	Sequence 14690, A
30	57.5	18.7	673	15	US-10-369-493-15173	Sequence 15173, A
31	57.5	18.7	703	15	US-10-369-493-11508	Sequence 11508, A
32	57.5	18.7	1003	16	US-10-437-963-190584	Sequence 190584, A
33	57	18.6	200	16	US-10-425-115-299370	Sequence 299370, A
34	56	18.2	78	14	US-10-106-698-5379	Sequence 5379, Ap
35	56	18.2	361	16	US-10-739-930-5604	Sequence 6604, Ap
36	56	18.2	361	17	US-10-732-923-2960	Sequence 2960, Ap
37	56	18.2	459	15	US-10-369-493-19269	Sequence 19269, A
38	55.5	18.1	48	15	US-10-424-599-170289	Sequence 170289, A
39	55.5	18.1	66	16	US-10-425-115-189569	Sequence 189569, A
40	55.5	18.1	79	15	US-10-424-599-270832	Sequence 270832, A
41	55.5	18.1	79	16	US-10-425-115-284110	Sequence 284110, A
42	55.5	18.1	99	15	US-10-424-599-240053	Sequence 240053, A
43	55.5	18.1	124	15	US-10-424-599-228996	Sequence 228996, A
44	55.5	18.1	141	9	US-09-771-161A-99	Sequence 99, Appl
45	55.5	18.1	153	15	US-10-424-599-166111	Sequence 166111, A

ALIGNMENTS

RESULT 1
US-10-205-823-405
; Sequence 405, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John B.
; APPLICANT: Endeghe, William O.
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Gorbacheva, Bella
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Womsey, Angela M.
; APPLICANT: Glatt, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Anderson, Dustin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; THERAPY OF PROSTATE CANCER
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/10/205,823
; PRIOR FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/362,158
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 405
LENGTH: 58
TYPE: PRT
ORGANISM: Homo sapiens
US-10-205-823-405

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Best Local Similarity 100.0%; Pred. No. 2,7e-33;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MQMPPSPPLFFFLQILKSSRLRLEHTFVFLNFSIMLRLYIGKKRRATRFMDPRRGTP 58
Db 1 MQMPPSPPLFFFLQILKSSRLRLEHTFVFLNFSIMLRLYIGKKRRATRFMDPRRGTP 58

RESULT 2
US-10-756-149-5551
Sequence 5551, Application US/10756149
Publication No. US20050181375A1
GENERAL INFORMATION:

APPLICANT: Aiz, Natsasha
APPLICANT: Zlotnick, Albert
TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
FILE REFERENCE: file
CURRENT APPLICATION NUMBER: US/10/756,149
CURRENT FILING DATE: 2004-01-12
NUMBER OF SEQ ID NOS: 5818
SOFTWARE: Patent in version 3.2
SEQ ID NO 5551
LENGTH: 58
TYPE: PRT
ORGANISM: Homo Sapiens
US-10-756-149-5551

Query Match 100.0%; Score 307; DB 18; Length 58;
Best Local Similarity 100.0%; Pred. No. 2,7e-33;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 3
US-11-051-454-405
Sequence 405, Application US/11051454
Publication No. US20050191673A1
GENERAL INFORMATION:

APPLICANT: Schlegel, Robert
APPLICANT: Monahan, John E.
APPLICANT: Endege, Wilson O.
APPLICANT: Gannavarepu, Manjula
APPLICANT: Gorbatcheva, Bella
APPLICANT: Hoerach, Sebastian
APPLICANT: Kametkar, Shubhangi
APPLICANT: Monsey, Angela M.
APPLICANT: Glatt, Karen
APPLICANT: Zhao, Xumei
APPLICANT: Anderson, Dustin
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
FILE REFERENCE: MRI-044
CURRENT APPLICATION NUMBER: US/11/051,454
CURRENT FILING DATE: 2005-02-04
PRIOR APPLICATION NUMBER: US/10/205,823
PRIOR FILING DATE: 2002-07-25
PRIOR APPLICATION NUMBER: 60/307,982
PRIOR FILING DATE: 2001-07-25
PRIOR APPLICATION NUMBER: 60/314,356
PRIOR FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/325,020

PRIOR FILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR FILING DATE: 2002-03-05
NUMBER OF SEQ ID NOS: 455
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 405
LENGTH: 58
TYPE: PRT
ORGANISM: Homo sapiens
US-11-051-454-405

Query Match 100.0%; Score 307; DB 20; Length 58;
Best Local Similarity 100.0%; Pred. No. 2,7e-33;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4
US-10-424-599-206785
Sequence 206785, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J
APPLICANT: Kovalic, David K
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 206785
LENGTH: 100
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_28754C.1.pep
US-10-424-599-206785

Query Match 23.3%; Score 71.5; DB 15; Length 100;
Best Local Similarity 42.0%; Pred. No. 0.16;
Matches 21; Conservative 4; Mismatches 14; Indels 11; Gaps 2;

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RESULT 5
US-10-425-115-189599
Sequence 189599, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369226
SEQ ID NO 189599
LENGTH: 81
TYPE: PRT
ORGANISM: Zea mays

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: October 16, 2005, 05:35:23 ; Search time 55 Seconds
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78.721 Million cell updates/sec

Title: US-10-031-158-14

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Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	62.5	20.4	77	4	US-09-248-796A-25511 Sequence 25511, A
2	60.5	19.7	72	4	US-09-328-352-7350 Sequence 7350, Ap
3	60	19.5	904	4	US-09-543-681A-4564 Sequence 4564, Ap
4	56	18.2	542	4	US-09-902-540-16320 Sequence 16320, A
5	55.5	18.1	229	4	US-09-489-039A-9391 Sequence 9391, Ap
6	55.5	18.1	316	1	US-08-403-634-4 Sequence 4, Appl
7	55.5	18.1	316	1	US-08-403-634-31 Sequence 31, Appl
8	55.5	18.1	316	3	US-08-913-441B-4 Sequence 4, Appl
9	55.5	18.1	316	3	US-08-913-441B-31 Sequence 31, Appl
10	55.5	18.1	316	4	US-09-571-985C-4 Sequence 4, Appl
11	55.5	18.1	316	4	US-09-571-985C-31 Sequence 31, Appl
12	55	17.9	403	4	US-09-802-213-5 Sequence 5, Appl
13	55	17.9	414	4	US-09-802-213-3 Sequence 3, Appl
14	54	17.6	354	4	US-09-583-110-4854 Sequence 4854, Ap
15	54	17.4	338	4	US-09-107-433-4701 Sequence 4701, Ap
16	53.5	17.4	338	4	US-09-543-681A-7759 Sequence 7759, Ap
17	53.5	17.4	713	1	US-08-190-802A-63 Sequence 63, Appl
18	53.5	17.4	713	3	US-08-477-346-63 Sequence 63, Appl
19	53.5	17.4	713	3	US-08-473-089-63 Sequence 63, Appl
20	53.5	17.4	713	4	US-08-487-072A-63 Sequence 63, Appl
21	53.5	17.4	713	4	US-09-108-857-3 Sequence 3, Appl
22	53	17.3	79	4	US-09-248-796A-26296 Sequence 26296, A
23	53	17.3	163	4	US-09-270-767-40798 Sequence 40798, A
24	53	17.3	163	4	US-09-270-767-56014 Sequence 56014, A
25	53	17.3	273	3	US-08-936-165A-395 Sequence 395, App
26	52.5	17.1	172	4	US-09-252-991A-20038 Sequence 20038, A
27	52.5	17.1	407	4	US-09-328-352-7772 Sequence 7772, Ap

28	52.5	17.1	2618	3	US-09-413-814-28 Sequence 28, Appl
29	52	16.9	559	3	US-09-134-001C-1721 Sequence 3721, Ap
30	52	16.9	574	4	US-09-902-540-11805 Sequence 11805, A
31	52	16.9	920	4	US-09-270-767-43994 Sequence 43994, A
32	52	16.9	897	4	US-09-543-681A-4915 Sequence 4915, Ap
33	51.5	16.8	119	4	US-09-270-767-41178 Sequence 41178, A
34	51.5	16.8	119	4	US-09-270-767-56394 Sequence 56394, A
35	51.5	16.8	178	4	US-09-328-352-42377 Sequence 42377, Ap
36	51.5	16.8	354	1	US-07-759-568-2 Sequence 2, Appl
37	51	16.6	114	4	US-09-489-039A-13491 Sequence 13491, A
38	51	16.6	253	4	US-09-270-767-41520 Sequence 41520, A
39	51	16.6	327	4	US-09-248-796A-16639 Sequence 16639, A
40	51	16.6	458	4	US-09-543-681A-5324 Sequence 6324, Ap
41	51	16.6	488	4	US-09-248-796A-15599 Sequence 15599, A
42	51	16.6	534	4	US-09-270-767-43905 Sequence 43905, A
43	51	16.6	815	4	US-09-489-039A-8577 Sequence 8577, Ap
44	51	16.6	873	4	US-09-543-681A-7315 Sequence 7315, Ap
45	50.5	16.4	61	4	US-09-248-796A-22227 Sequence 22227, A

ALIGNMENTS

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RESULT 1
US-09-248-796A-25511
Sequence 25511, Application US/09248796A
Patent No. 6747137
GENERAL INFORMATION:
APPLICANT: Keith Weinibock et al
TITLE OF INVENTION: NOCLETIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICA.
TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.132
CURRENT APPLICATION NUMBER: US/09/248,796A
PRIOR FILING DATE: 1999-02-12
PRIOR APPLICATION NUMBER: US 60/074,725
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: US 60/096,409
PRIOR FILING DATE: 1998-08-13
NUMBER OF SEQ ID NOS: 28208
SEQ ID NO 25511
LENGTH: 77
TYPE: PRT
ORGANISM: Candida albicans
US-09-248-796A-25511

Query Match      20.4%; Score 62.5; DB 4; Length 77;
Best Local Similarity 38.6%; Pred. No. 0.13;
Matches: 17; Conservative 8; Mismatches 18; Indels 1; Gaps 1;

QY      9 LFFPLQLKQSSRLRLEHT-FVPLRNFSLMLRYIGKRRATRPFW 51
DB      11 LINFPLAKEKNGNLSNFFFLDFILLPLRYLEKKKPIRPF 54

RESULT 2
US-09-328-352-7350
Sequence 7350, Application US/09328352
Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
FILE REFERENCE: GTC99-03PA
CURRENT APPLICATION NUMBER: US/09/328,352
PRIOR FILING DATE: 1999-06-04
NUMBER OF SEQ ID NOS: 8252
SEQ ID NO 7350
LENGTH: 72
TYPE: PRT
ORGANISM: Acinetobacter baumannii
US-09-328-352-7350

Query Match      19.7%; Score 60.5; DB 4; Length 72;

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Best Local Similarity 27.5%; Pred. No. 0.23;
Matches 11; Conservative 17; Mismatches 7; Indels 5; Gaps 2;

QY 13 LQLOKSSRLHTFVPL--RNFSLMLRYIGKRRARF 50
DB 12 MFLRSTSTOLOHAYSFMTONF---IKFLGQRWSPF 48

RESULT 3

US-09-543-681A-4564
Sequence 4564, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:

APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709.1002-001
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 4564
LENGTH: 904
TYPE: PR1
ORGANISM: Proteus mirabilis

US-09-543-681A-4564

Query Match 19.5%; Score 60; DB 4; Length 904;
Best Local Similarity 35.3%; Pred. No. 5.1;
Matches 18; Conservative 7; Mismatches 16; Indels 10; Gaps 2;

QY 15 LKQSSRLHTFVPLRNFSLMLRYIGKRRARF-----FMDPRGTP 58
DB 204 LAGQRAIER---FFRKGNLIALRKLARMAQDVDSQYKFRDSGGTP 251

RESULT 4

US-09-902-540-16320
Sequence 16320, Application US/09902540
Patent No. 6833447
GENERAL INFORMATION:

APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 16320
LENGTH: 542
TYPE: PR1
ORGANISM: Myxococcus xanthus

US-09-902-540-16320

Query Match 18.2%; Score 56; DB 4; Length 542;
Best Local Similarity 30.5%; Pred. No. 11;
Matches 18; Conservative 10; Mismatches 23; Indels 8; Gaps 2;

QY 4 FPPSPFLFFLQLOKSSRL-----ZHTFVFLRNPFLMLRYIGKRRARF-FMDPR 54
DB 18 FPPSPFLFFLRRRLKGLGADLIGFHTVSYVRHPSGALLRHLGUDTIDRITWGR 76

RESULT 5

US-09-489-039A-9391
Sequence 9391, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:

APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 9391
LENGTH: 229
TYPE: PR1
ORGANISM: Klebsiella pneumoniae

US-09-489-039A-9391

Query Match 18.1%; Score 55.5; DB 4; Length 229;
Best Local Similarity 26.4%; Pred. No. 4.7;
Matches 14; Conservative 9; Mismatches 27; Indels 3; Gaps 1;

QY 4 FPPSPFLFFLQLOKSSRLHTFVFLRNF---SIMLLRYIGKRRARFMDP 53
DB 51 FPPSPDYVLNLFRRVRKAIREFLYLKLKSTLILNYLPTNTTTPFSDP 103

RESULT 6

US-08-403-634-4
Sequence 4, Application US/08403634
Patent No. 5674748
GENERAL INFORMATION:

APPLICANT: Giordano, Antonio
TITLE OF INVENTION: NOVEL HUMAN CYCLIN-DEPENDENT
TITLE OF INVENTION: KINASE-LIKE PROTEINS AND METHODS
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSER: Woodcock, Washburn, Kurtz, Mackiewicz &
ADDRESSER: No. 56747481s
STREET: One Liberty Place, 46th floor
CITY: Philadelphia
STATE: PA
COUNTRY: USA
ZIP: 19103

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/403,634
FILING DATE:
CLASSIFICATION: 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/208,575
FILING DATE: 08-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: Deluca, Mark

REGISTRATION NUMBER: 33,229
REFERENCE/DOCKET NUMBER: TUD-1482
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 568-3100
TELEFAX: (215) 568-3439

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 316 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-403-634-4

Query Match 18.1%; Score 55.5; DB 1; Length 316;
Best Local Similarity 35.4%; Pred. No. 6.9;
Matches 17; Conservative 5; Mismatches 23; Indels 3; Gaps 1;

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 16, 2005, 05:24:13 ; Search time 121 Seconds
(without alignments)
245.459 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 307
Sequence: 1 MQMPPSPFLFLLQLKSS.....RYIGKKRRATFMDPRGTP 58

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : uniprot_03:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result #No	Score	Query Match	Length	ID	Description
1	66.5	21.7	382	Q652R3	O652R3 Oryza sativ
2	66.5	21.7	735	Q704C6	Q704C6 thermoprote
3	66	21.5	482	Q7MW94	Q7MW94 porphyromon
4	64	20.8	524	Q6QHE6	Q6QHE6 brassica hi
5	63	20.5	524	Q6QHD9	Q6QHD9 brassica ca
6	63	20.5	524	Q6QHE0	Q6QHE0 brassica ol
7	63	20.5	524	Q6QHE1	Q6QHE1 brassica mo
8	63	20.5	524	Q6QHE4	Q6QHE4 brassica in
9	63	20.5	934	Q9HCR9	Q9HCR9 homo sapien
10	63	20.5	935	Q8VID6	Q8VID6 rattus norv
11	63	20.5	988	Q96S76	Q96S76 homo sapien
12	62.5	20.4	779	YU20_ARATH	Q9ZPV5 arabidopsis
13	62	20.2	524	Q6QHE7	Q6QHE7 brassica in
14	62	20.2	524	Q6QHE7	Q6QHE7 brassica in
15	62	20.2	579	Q76734	Q76734 dictyosteli
16	61	19.9	298	Q7X1N8	Q7X1N8 lactococcus
17	61	19.9	504	Q13102	Q13102 carassius a
18	60	19.5	511	Q9GHA9	Q9GHA9 flagellaria
19	60	19.5	1199	Q9YAJ9	Q9YAJ9 homo sapien
20	59	19.2	637	Q9W4R7	Q9W4R7 dirosophila
21	59	19.2	1463	Q86NZ0	Q86NZ0 dirosophila
22	59	19.2	2243	Q9VGP1	Q9VGP1 dirosophila
23	58.5	19.1	1876	Q7RIX5	Q7RIX5 plasmodium
24	58	18.9	253	Q04021	Q04021 arabidopsis
25	58	18.9	374	Q9KCM2	Q9KCM2 bacillus ha
26	58	18.9	622	Q84TU9	Q84TU9 arabidopsis
27	58	18.9	843	Q9SB10	Q9SB10 arabidopsis
28	57.5	18.7	53	Q8FSU4	Q8FSU4 leptospira
29	57.5	18.7	211	YAN8_SCHPO	Q10073 schizosacch
30	57.5	18.7	651	Q7DZ14	Q7DZ14 agrobacteri
31	57.5	18.7	713	Q8UJ16	Q8UJ16 agrobacteri

32	57.5	18.7	1082	2	Q80U35	Q80U35 mus musculu
33	57	18.6	243	2	Q8A9M4	Q8A9M4 bacteroides
34	57	18.6	492	2	Q84UR3	Q84UR3 arabidopsis
35	56.5	18.4	124	2	Q9YR31	Q9YR31 aeropyrum p
36	56.5	18.4	282	2	Q94BB8	Q94BB8 kochia scop
37	56.5	18.4	332	2	Q61982	Q61982 caenorhabdi
38	56.5	18.4	511	1	MARK_BROIN	Q9MU23 bromus iner
39	56.5	18.4	821	2	Q73YX5	Q73YX5 mycobacteri
40	56	18.2	61	2	Q8V7E3	Q8V7E3 tt virus. o
41	56	18.2	276	2	Q8BYB4	Q8BYB4 mus musculu
42	56	18.2	344	2	Q7P382	Q7P382 fuesbacteri
43	56	18.2	361	2	Q9SN11	Q9SN11 arabidopsis
44	56	18.2	563	2	Q8ENR2	Q8ENR2 oceanobacil
45	56	18.2	586	2	Q7WZ14	Q7WZ14 haemophilus

ALIGNMENTS

RESULT 1	ID	Q652R3	PRELIMINARY;	PRT;	382 AA.
AC	Q652R3				
DT	25-OCT-2004 (TREMBLrel. 28, Created)				
DT	25-OCT-2004 (TREMBLrel. 28, Last sequence update)				
DT	25-OCT-2004 (TREMBLrel. 28, Last annotation update)				
DE	Hypothetical protein P0603C10.53.				
GN	Name=P0603C10.53;				
OS	Oryza sativa (japonica cultivar-group).				
OC	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;				
OC	Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;				
OC	Ehrhartoideae; Oryzoideae; Oryza.				
OX	NCBI_TaxID=39947;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RA	Sasaki T., Matsunoto T., Katayose Y.;				
RT	"Oryza sativa nipponbare (GA3) genomic DNA, chromosome 6, PAC				
RT	clone: P0603C10."				
RL	Submitted (JUL-2002) to the EMBL/GenBank/DBSJ databases.				
DR	EMBL; AP005527; BAD46204.1; -				
KW	Hypothetical protein.				
SQ	SEQUENCE 382 AA; 41577 MW; 3CADI61AE25E8DDB CRC64;				
Query Match	21.7%; Score 66.5; DB 2; Length 382;				
Best Local Similarity	41.5%; Pred. No. 4.7;				
Matches	17; Conservative 3; Mismatches 16; Indels 5; Gaps 1;				
QY	18 QSSRLHTFYFLRNFSIMLRYIGKKRRATFMDPRGTP 58				
DB	226 RASRRREHGAVALHNFSRG-----GDRRRRRHWPFSRRP 261				
RESULT 2	ID	Q704C6	PRELIMINARY;	PRT;	735 AA.
AC	Q704C6				
DT	05-JUL-2004 (TREMBLrel. 27, Created)				
DT	05-JUL-2004 (TREMBLrel. 27, Last sequence update)				
DT	05-JUL-2004 (TREMBLrel. 27, Last annotation update)				
DE	Trehalose-6-phosphate synthase-phosphatase.				
GN	Name=tpsp;				
OS	Thermoproteus tenax.				
OC	Archaea; Crenarchaeota; Thermoprotei; Thermoproteales;				
OC	Thermoproteaceae; Thermoproteus.				
OX	NCBI_TaxID=2271;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RX	PUBMED-15028704; DOI=10.1128/JB.186.7.2179-2194.2004;				
RA	Stiebert B., Tjaden B., Michalke K., Doerr C., Zaparty M.,				
RA	Gordon P., Sengen C.W., Zibat A., Klenk H.P., Schuster S.C.,				
RA	Hensel R.;				
RT	"Reconstruction of the central carbohydrate metabolism of				
RT	Thermoproteus tenax using genomic and biochemical data."				

```

BL J. Bacteriol. 186:2179-2194(2004) .
DR EMBL_AJ621287; CAP18468.1; -.
DR GO; GO:0003285; F:alpha,alpha-trehalose-phosphate synthase (U. . . ; IEA.
DR GO; GO:0003824; F:catalytic activity; IEA.
DR GO; GO:0004805; F:trehalose-phosphatase activity; IEA.
DR GO; GO:0008152; P:metabolism; IEA.
DR GO; GO:0005992; P:trehalose biosynthesis; IEA.
DR InterPro; IPR001830; Glyco_trans_20.
DR InterPro; IPR006379; HAD_SF_TTB.
DR InterPro; IPR00337; Trehalose_Pase.
DR Pfam; PF00982; Glyco_transf_20; 1.
DR Pfam; PF02358; Trehalose_Pase; 1.
DR TIGRPFAMS; TIGR01484; HAD-SF-TTB; 1.
DR TIGRPFAMS; TIGR00685; TcPP; 1.
SQ SEQUENCE 735 AA; 82040 MW; AAF7A6BE3844804ED CRC64;

Query Match      21.7%; Score 66.5; DB 2; Length 735;
Best Local Similarity 37.7%; Pred. No. 9.5;
Matches 20; Conservative 7; Mismatches 11; Indels 15; Gaps 3

Oy      4 PPSPFLPFLQLKQSSRR--LE-----HTVFIRNFSMLRLYICKK 44
          ||| | | | | | | | | | | | | | | | | | | | | | | |
Db      173 FPAPAL---LQLPSEMRREILGGLSDLVGFHTVEYSANPSRVAFLYGK 222

RESULT 3
OTMV94      QTMV94      PRELIMINARY;    PRT;      482 AA.
AC   Q7MW94;
DT 01-MAR-2004 (TREMBlrel. 26, Created)
DT 01-MAR-2004 (TREMBlrel. 26, Last sequence update)
DT 01-MAR-2004 (TREMBlrel. 26, Last annotation update)
DE Hypothetical protein.
GN OrderedlocusNames=PGI186;
OC Porphyromonas gingivalis (Bacteroides gingivalis) .
OC Bacteria; Bacteroidetes; Bacteroidales; Bacteroidales;
OC Porphyromonadaceae; Porphyromonas.
OX NCBI_taxid=837;
ON (1)
RN RP
RP SEQUENCE FROM N.A.
RC STRAIN=W83;
RX MEDLINE=22829867; PubMed=12949112;
RA DOI=10.1128/JB.185.18.5591-5601.2003;
RA Nelson K.E., Fleischmann R.D., Deboy R.T., Paulsen I.T., Fouts D.E.,
RA Eisen J.A., Dougherty S.C., Dodson R.J., Durkin A.S., Gwinn M.L.,
RA Haft D.H., Kolonay J.F., Nelson W.C., Mason T.M., Tallon L., Gray J.,
RA Granger D., Tettelin H., Dong H., Galvin J.L., Duncan M.T.,
RA Dewhirst F.E., Fraser C.M.,
RT "Complete genome sequence of the oral pathogenic bacterium
RT Porphyromonas gingivalis strain W83."
RL J. Bacteriol. 185:5591-5601(2003).
DR EMBL_AE017176; AAQ66284.1; -.
DR TIGR; TIGR186; -.
KW Complete proteome; Hypothetical protein.
SQ SEQUENCE 482 AA; 53698 MW; 4E7B69ECDD3E6016 CRC64;

Query Match      21.5%; Score 66; DB 2; Length 482;
Best Local Similarity 46.2%; Pred. No. 7;
Matches 12; Conservative 5; Mismatches 9; Indels 0; Gaps 0

Oy      15 LKQSRRRLHFTVFIRNFSMLRLY 40
          ||| | | | | | | | | | | | | | | | | | | | | | | |
Db      325 LKSIDREVSHAFASLRNDLLITQY 350

RESULT 4
OQOH6      OQOH6      PRELIMINARY;    PRT;      524 AA.
AC   O6OH66;
DT 05-JUL-2004 (TREMBlrel. 27, Created)
DT 05-JUL-2004 (TREMBlrel. 27, Last sequence update)
DT 05-JUL-2004 (TREMBlrel. 27, Last annotation update)
DE Matutase K.
```

[illegible]

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: October 16, 2005, 05:22:43 ; Search time 122 Seconds

(without alignments)
183.870 Million cell updates/sec

Title: US-10-031-158-14

Perfect score: 307
Sequence: 1 MQMPPSPLEFFLQLKQSS.....RYIGKRRATRFMPRRGTP 58

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: A_Geneseq_16Dec04:*

1: Geneseqp1980s:*
2: Geneseqp1990s:*
3: Geneseqp2000s:*
4: Geneseqp2001s:*
5: Geneseqp2002s:*
6: Geneseqp2003as:*
7: Geneseqp2003bs:*
8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	307	100.0	58	4	AAB66399 Human TCR
2	307	100.0	58	7	ADB75581 Prostate
3	307	100.0	58	8	ADP54863 Human PRO
4	91	29.6	16	4	AAB67199 Human TCR
5	63	20.5	934	4	AA662677 Human TYP
6	63	20.5	935	4	AA662680 Rat type
7	62.5	20.4	688	3	AA32065 Arabidops
8	62.5	20.4	688	3	AA32065 Arabidops
9	62.5	20.4	728	3	AA32064 Arabidops
10	62.5	20.4	728	3	AA32064 Arabidops
11	62.5	20.4	764	3	AA40593 Arabidops
12	62.5	20.4	779	3	AA32063 Arabidops
13	62	20.2	16	4	AAB67200 D discoid
14	61	19.9	116	4	AA006173 Human pol
15	60.5	19.7	72	6	ADA36663 Actinotoba
16	60.5	19.7	1855	2	AA21803 B. subcell
17	60.5	19.7	1855	2	AA21803 B. subcell
18	60	19.5	85	4	AA007716 Polypepti
19	60	19.5	900	6	ABU40841 Protein e
20	60	19.5	904	7	ADFO4279 Bacterial
21	59	19.2	641	4	ABBS9719 Drosophil
22	59	19.2	2176	4	ABBS9719 Drosophil
23	58	18.9	83	4	AA009340 Human pol
24	57.5	18.7	135	5	ADK34310 Novel hum
25	57.5	18.7	319	8	ABM82552 Human dia

ALIGNMENTS

26	57.5	18.7	673	8	ADS25657 Bacterial
27	57.5	18.7	673	8	ADS26140 Bacterial
28	57.5	18.7	703	8	ADS22475 Bacterial
29	57	18.6	134	4	AA003316 Human pol
30	56.5	18.4	119	4	AA003520 Human pol
31	56	18.2	78	4	AA074605 Human col
32	56	18.2	232	3	AA070777 Arabidops
33	56	18.2	232	3	AA070777 Arabidops
34	56	18.2	308	3	AA070776 Arabidops
35	56	18.2	308	3	AA070776 Arabidops
36	56	18.2	361	3	AA070775 Arabidops
37	56	18.2	361	3	AA070775 Arabidops
38	56	18.2	459	3	AA070775 Arabidops
39	55.5	18.1	229	7	ABO62874 Bacterial
40	55.5	18.1	313	8	AD50796 Human c-b
41	55.5	18.1	314	7	AD163090 Human apo
42	55.5	18.1	314	8	AD057044 Human cyc
43	55.5	18.1	316	2	AAW04872 Phosphory
44	55.5	18.1	316	2	AAW04870 Cyclin-de
45	55.5	18.1	323	8	ADf88822 Human kin

RESULT 1
ID AAB66399 standard; protein; 58 AA.
XX AAB66399;
AC AAB66399;
DT 12-APR-2001 (first entry)
XX
DE Human TCRgamma alternate reading frame protein.
XX
KW Human; TARP; prostate cancer; breast cancer; immunotherapy;
KW T cell receptor gamma alternate reading frame protein; TCRgamma.
XX
OS Homo sapiens.
XX
FN WO200104309-A1.
XX
PD 18-JAN-2001.
XX
PP 12-JUL-2000; 2000WO-US019039.
XX
PR 13-JUL-1999; 99US-0143560P.
PR 01-OCT-1999; 99US-0157471P.
XX
PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
XX
PI Paetan I, Besand M, Lee B, Vaematzis G, Wolfgang C;
XX
DR WPI; 2001-081050/09.
XX
DR N-PSDB; AAF56401.
XX
PT Isolated T-cell receptor gamma alternate reading frame protein useful for
PT diagnosing and raising an immune response to prostate cancer and breast
PT cancer.
XX
PS Claim 2; Fig 1; 85pp; English.
XX
CC The present invention provides the protein and coding sequences of the
CC human T cell receptor alternate reading frame protein (TARF). This
CC protein is expressed in prostate and breast cancer cells at higher levels
CC than normal and so can be used in the immunotherapy of these cancers, as
CC well as their detection and prevention
XX
SQ Sequence 58 AA;
Query Match 100.0%; Score 307; DB 4; Length 58;
Best Local Similarity 100.0%; Pred. No. 2.6e-36;
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOWPSPPLFFFLQILKSSRLRLEHTFVFLANFSMLRLRYIGKKRRATRFMDPRGTP 58
DB 1 MOWPSPPLFFFLQILKSSRLRLEHTFVFLANFSMLRLRYIGKKRRATRFMDPRGTP 58

RESULT 2

ID ADB75581 standard; prolein; 58 AA.

XX ADB75581;

XX 04-DEC-2003 (first entry)

XX Prostate cancer marker protein.

XX Prostate; cancer; cytostatic; gene therapy; marker.

XX Homo sapiens.

XX WO2003009814-A2.

XX 06-FEB-2003.

XX 25-JUL-2002; 2002WO-US023913.

XX 25-JUL-2001; 2001US-0307982P.

XX 22-AUG-2001; 2001US-0314356P.

XX 25-SEP-2001; 2001US-0325020P.

XX 12-DEC-2001; 2001US-0341746P.

XX 05-MAR-2002; 2002US-0362158P.

XX (MILL-) MILLENNIUM PHARM INC.

XX Schlegel R, Monahan JF, Endege WO, Gannavarapu M, Gorbacheva B,

XX Hoerh S, Kamatkar S, Monney AM, Glat K, Zhao X, Anderson D;

XX WPI; 2003-248033/24.

XX New nucleic acid molecule, useful for diagnosing or treating prostate

XX cancer.

XX Disclosure; SEQ ID NO 405; 99pp; English.

XX The invention relates to newly discovered cancer markers associated with

XX the cancerous state of prostate cells. Also disclosed is a method of

XX assessing whether a patient is afflicted with prostate cancer. The method

XX of the invention involves assessing whether a patient is afflicted with

XX prostate cancer by comparing the level of expression of a marker in a

XX patient sample and the normal level of expression of the marker in a

XX control non-prostate cancer sample, where a significant increase in the

XX level of expression of the marker in the patient sample and the normal

XX level indicates that the patient is afflicted with prostate cancer.

XX Nucleic acids of the invention are useful for diagnosing or treating

XX prostate cancer, and may be useful in gene therapy. Sequences given in

XX ADB75177-ADB75531 represent marker cDNA and proteins. Note: The sequence

XX data for this patent did not form part of the pinned specification, but

XX was obtained in electronic format directly from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 58 AA;

XX Query Match

XX Best Local Similarity 100.0%; Score 307; DB 7; Length 58;

XX Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 1 MOWPSPPLFFFLQILKSSRLRLEHTFVFLANFSMLRLRYIGKKRRATRFMDPRGTP 58

XX DB 1 MOWPSPPLFFFLQILKSSRLRLEHTFVFLANFSMLRLRYIGKKRRATRFMDPRGTP 58

XX RESULT 3

XX ADB54863

ID ADB54863 standard; prolein; 58 AA.

XX ADB54863;

XX 18-NOV-2004 (first entry)

XX Human PRO protein sequence SEQ ID NO:839.

XX human; PRO; immune related disease; inflammatory immune response;

XX immune response stimulation; anti-allergic; anti-inflammatory; antiarthritic;

XX antiasthmatic; antidiabetic; antihypertensive; antiproliferative;

XX antineoplastic; antitumor; CNS; dermatological; gastrointestinal;

XX haemostatic; hepatotropic; immunostimulant; immunosuppressive; muscular;

XX nephrotropic; neuroprotective; osteopathic; respiratory; vasotropic;

XX virucide; gene therapy.

XX Homo sapiens.

XX WO2004039956-A2.

XX 13-MAY-2004.

XX 28-OCT-2003; 2003WO-US034381.

XX 29-OCT-2002; 2002US-0422472P.

XX (GENT) GENTECH INC.

XX Aggarwal S, Clark H, Gurney AL, Schoenfeld J, Williams PM;

XX Wood WT, Wu TD;

XX WPI; 2004-376182/35.

XX N-PSDB; ADB54862.

XX New PRO polynucleotides and polypeptides, useful in diagnosing

XX and treating an immune related disease, e.g. systemic lupus

XX erythematosus, rheumatoid arthritis, diabetes mellitus or asthma and in

XX stimulating an immune response.

XX Claim 1; SEQ ID NO 839; 3009pp; English.

XX The present invention describes an isolated PRO nucleic acid (1). Also

XX described: (1) a vector comprising (1); (2) a host cell comprising the

XX vector of (1); (3) a process for producing a PRO polypeptide; (4) an

XX isolated PRO polypeptide; (5) a chimeric molecule comprising the

XX polypeptide of (4) fused to a heterologous amino acid sequence; (6) an

XX antibody which specifically binds to a polypeptide of (4); (7) a

XX composition of matter comprising a polypeptide of (4), an agonist or

XX antagonist of the polypeptide or an antibody that binds to the

XX polypeptide in combination with a carrier; (8) an article of manufacture

XX comprising a container, a label on the container and a composition of

XX matter of (7); (9) a method of treating an immune related disease in a

XX mammal; (10) a method for determining the presence of a PRO polypeptide

XX in a sample suspected of having the polypeptide; (11) a method of

XX diagnosing an immune related disease or an inflammatory immune response

XX in mammal; (12) a method of identifying a compound that inhibits or

XX mimics the activity of or expression of a gene encoding a PRO polypeptide

XX; and (13) a method of stimulating the immune response in a mammal. The

XX PRO sequences have anti-allergic, anti-inflammatory, antiproliferative,

XX antiasthmatic, antidiabetic, antihypertensive, antiproliferative,

XX antineoplastic, antitumor, CNS, dermatological, gastrointestinal,

XX haemostatic, hepatotropic, immunostimulant, immunosuppressive, muscular,

XX nephrotropic, neuroprotective, osteopathic, respiratory, vasotropic and

XX virucide activities and can be used in gene therapy. The nucleic acid

XX (1) and the encoded polypeptides, compositions, kits and methods are

XX useful in diagnosing and treating an immune related disease and in

XX stimulating an immune response. The present sequence represents a human

XX PRO protein from the present invention.

XX Sequence 58 AA;

XX Query Match

XX Best Local Similarity 100.0%; Score 307; DB 8; Length 58;

XX Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX 1 MOWPSPPLFFFLQILKSSRLRLEHTFVFLANFSMLRLRYIGKKRRATRFMDPRGTP 58

XX DB 1 MOWPSPPLFFFLQILKSSRLRLEHTFVFLANFSMLRLRYIGKKRRATRFMDPRGTP 58

XX RESULT 3

XX ADB54863